

REPORTE DE DATOS - AGUA-01

Proyecto 13 | Generado el 25/11/2025 18:24:16

Descripción del Dataset:

Fecha inserción inicial: 2025-10-25 00:36:29

Fecha inserción final: 2025-11-25 17:06:29

Código interno: AGUA-01

Archivos: 8 | Registros: 717 | Fechas: 1

Archivo	Fecha Carpeta	Registros
AGUA-01_paquete_001_20251104.csv	2025-10-25	100
AGUA-01_paquete_002_20251105.csv	2025-10-25	100
AGUA-01_paquete_003_20251107.csv	2025-10-25	100
AGUA-01_paquete_004_20251111.csv	2025-10-25	100
AGUA-01_paquete_005_20251115.csv	2025-10-25	100
AGUA-01_paquete_006_20251120.csv	2025-10-25	100
AGUA-01_paquete_007_20251125.csv	2025-10-25	100
AGUA-01_paquete_008_20251125.csv	2025-10-25	17

METRICAS DE CALIDAD DE DATOS

Variable	Completitud %	Consistencia %	Estabilidad %	Continuidad %	Quality Score	Clasificación	N Outliers	Coef. Variación
DS18B20 [Grados celcius (°C)]	100.0%	100.0%	30.0%	16.2%	69.9%	DEFICIENTE	0	67.60%

DS3231 [Grados celcius (°C)]	100.0%	99.9%	60.0%	16.2%	77.4%	ACEPTABLE	1	39.45%
Divisor de Voltaje [Voltaje (V)]	100.0%	100.0%	100.0%	16.2%	87.4%	BUENA	0	0.96%
ENV-20-EC-K1.0 [Electroconductividad ambiental ($\mu\text{S}/\text{cm}$)]	100.0%	100.0%	30.0%	16.2%	69.9%	DEFICIENTE	0	67.27%
ENV-20-pH [pH ambiental (pH)]	100.0%	100.0%	30.0%	16.2%	69.9%	DEFICIENTE	0	67.51%
SIM7600G [Intensidad señal telefónica (Adimensional)]	100.0%	96.2%	100.0%	16.2%	86.3%	BUENA	27	8.28%

Métricas de Calidad:

- **Completitud:** % datos válidos (no nulos)
- **Consistencia:** % datos sin outliers (método IQR)
- **Estabilidad:** Baja variabilidad (Coef. Variación <30%)
- **Continuidad:** Regularidad temporal en mediciones
- **Quality Score:** Puntuación general ponderada

EXCELENTE ($\geq 90\%$) | **BUENA** ($\geq 80\%$) | **ACEPTABLE** ($\geq 70\%$) | **DEFICIENTE** ($< 70\%$)

ESTADISTICAS DESCRIPTIVAS

Variable	Media	Mediana	Moda	Desv. Est.	Varianza	Mín	Máx	Q1	Q3	N válidos
DS18B20 [Grados celcius (°C)]	14.0211	19.1900	0.0000	9.4788	89.8475	0.0000	25.0000	0.0000	20.7500	717
DS3231 [Grados celcius (°C)]	27.2448	27.0000	20.0000	10.7472	115.5016	13.2500	237.5000	20.2500	33.5000	717
Divisor de Voltaje [Voltaje (V)]	12.3330	12.3800	12.3900	0.1186	0.0141	12.0100	12.4900	12.2200	12.4400	717

ENV-20-EC-K1.0 [Electroconductivid ad ambiental (μ S/cm)]	1225.0237	1717.0000	0.0000	824.0435	679047.643 3	0.0000	2091.0000	0.0000	1793.0000	717
ENV-20-pH [pH ambiental (pH)]	5.8481	8.2900	0.0000	3.9481	15.5872	0.0000	9.9000	0.0000	8.6700	717
SIM7600G [Intensidad señal telefónica (Adimensional)]	24.0307	24.0000	24.0000	1.9893	3.9572	14.0000	30.0000	23.0000	25.0000	717

■ Interpretación: Media (promedio), Mediana (valor central), Moda (valor más frecuente), Desv. Est. (dispersión), Q1 y Q3 (cuartiles)

DATOS COMPLETOS

■ DATOS COMPLETOS - Página 1 (Filas 1-35)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius ($^{\circ}$ C)]	DS3231 [Grados celcius ($^{\circ}$ C)]	Divisor de Volt aje [Voltaje (V)]	ENV-20-EC-K1. 0 [Electrocondu ctividad ambiental (μ S/cm)]	ENV-20-pH [pH ambiental (pH)]	SIM7600G [Inten sidad señal tel efónica (Adimen sional)]	Min. Dif. Insercion	Min. Dif. Medi cion
1999-12-31 21:10:24	2025-10-25 00:36:29	13	AGUA-01	0.0	19.25	12.17	0.0	0.0	24.0	Primera	Primera
1999-12-31 21:10:23	2025-10-25 01:37:16	13	AGUA-01	0.0	19.25	12.24	0.0	0.0	24.0	60.8	-0.0
1999-12-31 22:11:12	2025-10-25 02:38:04	13	AGUA-01	0.0	19.5	12.22	0.0	0.0	24.0	60.8	60.8
1999-12-31 23:11:35	2025-10-25 03:38:56	13	AGUA-01	0.0	237.5	12.17	0.0	0.0	24.0	60.9	60.4
1999-12-31 21:10:23	2025-10-25 04:39:44	13	AGUA-01	0.0	17.75	12.24	0.0	0.0	24.0	60.8	-121.2

1999-12-31 22:11:16	2025-10-25 05:40:38	13	AGUA-01	0.0	16.25	12.08	0.0	0.0	24.0	60.9	60.9
1999-12-31 23:12:08	2025-10-25 06:41:23	13	AGUA-01	0.0	15.75	12.18	0.0	0.0	24.0	60.8	60.9
2000-01-01 00:12:52	2025-10-25 07:42:07	13	AGUA-01	17.12	16.0	12.11	1629.0	9.06	23.0	60.7	60.7
2000-01-01 01:14:07	2025-10-25 08:43:34	13	AGUA-01	0.0	23.75	12.15	0.0	0.0	24.0	61.5	61.2
1999-12-31 21:10:23	2025-10-25 09:44:47	13	AGUA-01	17.38	27.0	12.16	1637.0	9.13	23.0	61.2	-243.7
1999-12-31 21:10:23	2025-10-25 10:45:41	13	AGUA-01	18.62	29.75	12.19	1666.0	9.2	24.0	60.9	0.0
1999-12-31 21:10:24	2025-10-25 11:46:49	13	AGUA-01	19.56	31.0	12.17	1675.0	8.68	24.0	61.1	0.0
1999-12-31 21:10:23	2025-10-25 12:47:35	13	AGUA-01	19.19	31.0	12.25	1680.0	8.32	26.0	60.8	-0.0
1999-12-31 21:10:23	2025-10-25 13:48:27	13	AGUA-01	20.0	31.5	12.26	1716.0	8.18	25.0	60.9	0.0
1999-12-31 21:10:23	2025-10-25 14:49:17	13	AGUA-01	19.88	32.5	12.22	1699.0	7.92	22.0	60.8	0.0
1999-12-31 21:10:23	2025-10-25 15:50:09	13	AGUA-01	19.56	33.25	12.19	1677.0	8.07	26.0	60.9	0.0
1999-12-31 21:10:23	2025-10-25 16:51:04	13	AGUA-01	19.12	34.25	12.2	1670.0	8.23	23.0	60.9	0.0
1999-12-31 21:10:23	2025-10-25 17:51:55	13	AGUA-01	19.06	35.75	12.27	1670.0	8.31	23.0	60.9	0.0
1999-12-31 21:10:23	2025-10-25 18:53:03	13	AGUA-01	19.31	32.75	12.25	1675.0	9.03	24.0	61.1	0.0
1999-12-31 21:10:23	2025-10-25 19:53:38	13	AGUA-01	19.0	31.5	12.27	1660.0	9.19	24.0	60.6	0.0
1999-12-31 21:10:23	2025-10-25 20:53:55	13	AGUA-01	20.56	26.0	12.24	1690.0	9.9	23.0	60.3	0.0
1999-12-31 23:11:23	2025-10-25 22:55:28	13	AGUA-01	19.19	24.25	12.07	1661.0	9.51	22.0	121.5	121.0
1999-12-31 21:10:23	2025-10-25 23:56:18	13	AGUA-01	19.06	23.0	12.21	1654.0	9.62	24.0	60.8	-121.0
1999-12-31 21:10:23	2025-10-26 00:56:57	13	AGUA-01	18.5	22.5	12.21	1644.0	9.44	24.0	60.6	0.0
1999-12-31 21:33:49	2025-10-26 01:57:42	13	AGUA-01	0.0	20.0	12.19	0.0	0.0	27.0	60.8	23.4
1999-12-31 22:33:25	2025-10-26 02:58:25	13	AGUA-01	0.0	18.5	12.16	0.0	0.0	24.0	60.7	59.6

1999-12-31 23:34:12	2025-10-26 03:59:11	13	AGUA-01	0.0	18.75	12.22	0.0	0.0	24.0	60.8	60.8
2000-01-01 00:06:44	2025-10-26 04:59:53	13	AGUA-01	18.0	16.5	12.11	1655.0	8.97	24.0	60.7	32.5
2000-01-01 01:07:22	2025-10-26 06:00:32	13	AGUA-01	17.81	15.5	12.17	1655.0	8.95	23.0	60.6	60.6
2000-01-01 02:07:44	2025-10-26 07:01:13	13	AGUA-01	0.0	14.0	12.09	0.0	0.0	23.0	60.7	60.4
2000-01-01 03:08:39	2025-10-26 08:02:08	13	AGUA-01	17.56	18.5	12.11	1646.0	8.93	22.0	60.9	60.9
1999-12-31 21:10:23	2025-10-26 09:03:37	13	AGUA-01	17.62	27.25	12.21	1645.0	9.09	21.0	61.5	-358.3
1999-12-31 21:10:23	2025-10-26 10:04:48	13	AGUA-01	18.06	31.5	12.25	1647.0	9.16	22.0	61.2	0.0
1999-12-31 21:10:23	2025-10-26 11:05:47	13	AGUA-01	20.12	34.25	12.2	1692.0	8.89	22.0	61.0	0.0
1999-12-31 21:10:23	2025-10-26 12:06:44	13	AGUA-01	21.38	35.25	12.2	1766.0	8.59	24.0	61.0	0.0

■ DATOS COMPLETOS - Página 2 (Filas 36-70)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
1999-12-31 21:10:23	2025-10-26 13:07:34	13	AGUA-01	19.94	36.0	12.27	1722.0	7.7	23.0	60.8	0.0
1999-12-31 21:10:23	2025-10-26 14:08:28	13	AGUA-01	20.56	36.0	12.3	1749.0	7.79	21.0	60.9	0.0
1999-12-31 21:10:23	2025-10-26 15:09:13	13	AGUA-01	21.12	35.25	12.24	1790.0	8.33	24.0	60.8	0.0
1999-12-31 21:10:23	2025-10-26 16:10:01	13	AGUA-01	20.75	35.25	12.32	1733.0	8.72	24.0	60.8	0.0
1999-12-31 21:34:46	2025-10-26 17:10:50	13	AGUA-01	20.56	36.0	12.14	1714.0	8.72	26.0	60.8	24.4
1999-12-31 22:03:10	2025-10-26 18:11:39	13	AGUA-01	20.62	36.25	12.29	1753.0	8.92	25.0	60.8	28.4
1999-12-31 21:10:23	2025-10-26 19:12:26	13	AGUA-01	20.06	35.5	12.16	1721.0	9.04	25.0	60.8	-52.8
1999-12-31 21:32:57	2025-10-26 20:12:57	13	AGUA-01	19.25	29.75	12.24	1673.0	9.29	22.0	60.5	22.6
2040-01-10 22:10:23	2025-10-26 21:13:35	13	AGUA-01	18.94	27.75	12.25	1646.0	9.27	26.0	60.6	21052837.4
1999-12-31 21:10:23	2025-10-26 22:14:16	13	AGUA-01	18.75	26.75	12.26	1644.0	9.1	24.0	60.7	-21052860.0
1999-12-31 21:10:23	2025-10-26 23:15:02	13	AGUA-01	18.5	25.25	12.23	1660.0	8.79	25.0	60.8	0.0
1999-12-31 21:10:23	2025-10-27 00:15:47	13	AGUA-01	0.0	23.75	12.16	0.0	0.0	25.0	60.8	0.0
2042-01-07 21:10:35	2025-10-27 01:16:30	13	AGUA-01	18.31	22.5	12.18	1660.0	8.69	27.0	60.7	22101120.2
1999-12-31 21:10:23	2025-10-27 02:17:14	13	AGUA-01	0.0	21.25	12.16	0.0	0.0	24.0	60.7	-22101120.2
1999-12-31 21:10:24	2025-10-27 03:18:00	13	AGUA-01	0.0	20.5	12.17	0.0	0.0	24.0	60.8	0.0
1999-12-31 21:10:23	2025-10-27 04:18:48	13	AGUA-01	0.0	20.25	12.18	0.0	0.0	24.0	60.8	-0.0

2002-01-07 21:10:23	2025-10-27 05:19:38	13	AGUA-01	0.0	20.5	12.15	0.0	0.0	23.0	60.8	1062720.0
1999-12-31 21:10:23	2025-10-27 06:20:25	13	AGUA-01	0.0	19.75	12.15	0.0	0.0	24.0	60.8	-1062720.0
2006-09-09 21:39:41	2025-10-27 07:21:11	13	AGUA-01	18.38	20.0	12.17	1676.0	9.1	21.0	60.8	3519389.3
2006-09-09 22:40:34	2025-10-27 08:22:04	13	AGUA-01	18.38	21.5	12.19	1679.0	9.03	27.0	60.9	60.9
1999-12-31 21:10:23	2025-10-27 09:23:08	13	AGUA-01	18.62	25.25	12.22	1682.0	9.0	25.0	61.1	-3519450.2
1999-12-31 21:10:23	2025-10-27 10:24:12	13	AGUA-01	19.06	29.0	12.19	1701.0	9.15	25.0	61.1	0.0
1999-12-31 21:10:23	2025-10-27 11:25:17	13	AGUA-01	20.5	32.5	12.2	1745.0	8.85	26.0	61.1	0.0
1999-12-31 21:10:23	2025-10-27 12:26:10	13	AGUA-01	19.81	34.25	12.22	1716.0	8.3	22.0	60.9	0.0
1999-12-31 21:10:23	2025-10-27 13:27:02	13	AGUA-01	19.94	33.75	12.15	1728.0	8.88	25.0	60.9	0.0
1999-12-31 21:10:23	2025-10-27 14:27:37	13	AGUA-01	19.62	31.25	12.24	1690.0	9.23	24.0	60.6	0.0
1999-12-31 21:10:23	2025-10-27 15:28:22	13	AGUA-01	19.69	32.25	12.23	1717.0	8.74	27.0	60.8	0.0
1999-12-31 21:10:23	2025-10-27 16:29:17	13	AGUA-01	20.0	32.25	12.23	1751.0	8.97	23.0	60.9	0.0
1999-12-31 21:10:23	2025-10-27 17:30:06	13	AGUA-01	19.88	33.25	12.12	1713.0	9.02	23.0	60.8	0.0
1999-12-31 21:10:23	2025-10-27 18:30:44	13	AGUA-01	19.94	29.5	12.27	1702.0	9.33	24.0	60.6	0.0
1999-12-31 21:10:23	2025-10-27 19:31:24	13	AGUA-01	19.12	27.75	12.27	1655.0	9.38	27.0	60.7	0.0
1999-12-31 21:10:23	2025-10-27 20:32:11	13	AGUA-01	18.81	26.75	12.2	1635.0	9.29	27.0	60.8	0.0
1999-12-31 21:10:23	2025-10-27 21:32:53	13	AGUA-01	18.69	26.5	12.19	1646.0	9.11	24.0	60.7	0.0
1999-12-31 21:10:23	2025-10-27 22:33:40	13	AGUA-01	18.56	24.25	12.22	1665.0	8.89	23.0	60.8	0.0
1999-12-31 21:10:23	2025-10-27 23:34:21	13	AGUA-01	0.0	23.0	12.18	0.0	0.0	24.0	60.7	0.0

■ DATOS COMPLETOS - Página 3 (Filas 71-105)

fecha	fecha_insercion	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH ambiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medicion
1999-12-31 21:10:23	2025-10-28 00:35:02	13	AGUA-01	0.0	20.75	12.17	0.0	0.0	22.0	60.7	0.0
1999-12-31 21:10:23	2025-10-28 01:35:46	13	AGUA-01	18.31	20.0	12.12	1655.0	8.96	28.0	60.7	0.0
1999-12-31 22:11:05	2025-10-28 02:36:28	13	AGUA-01	18.25	18.25	12.18	1659.0	8.72	25.0	60.7	60.7
1999-12-31 21:10:23	2025-10-28 03:37:12	13	AGUA-01	0.0	17.75	12.16	0.0	0.0	24.0	60.7	-60.7
1999-12-31 22:11:11	2025-10-28 04:38:00	13	AGUA-01	0.0	16.25	12.17	0.0	0.0	24.0	60.8	60.8
1999-12-31 23:11:55	2025-10-28 05:38:45	13	AGUA-01	17.94	15.5	12.11	1662.0	8.61	24.0	60.8	60.7
2000-01-01 00:12:42	2025-10-28 06:39:31	13	AGUA-01	0.0	15.0	12.1	0.0	0.0	22.0	60.8	60.8
2000-01-01 01:13:29	2025-10-28 07:40:19	13	AGUA-01	17.75	16.75	12.08	1647.0	8.78	23.0	60.8	60.8
2000-01-01 01:45:06	2025-10-28 08:41:46	13	AGUA-01	17.56	25.25	12.24	1652.0	8.66	22.0	61.5	31.6
2046-01-08 21:10:40	2025-10-28 09:43:04	13	AGUA-01	17.81	31.75	12.2	1667.0	8.62	23.0	61.3	24206125.6
1999-12-31 21:10:23	2025-10-28 10:44:08	13	AGUA-01	19.38	36.25	12.24	1741.0	8.32	26.0	61.1	-24206400.3
1999-12-31 22:11:15	2025-10-28 11:45:00	13	AGUA-01	20.19	36.5	12.2	1752.0	7.33	23.0	60.9	60.9
1999-12-31 22:42:40	2025-10-28 12:45:52	13	AGUA-01	20.62	36.5	12.18	1768.0	7.45	23.0	60.9	31.4
1999-12-31 22:56:01	2025-10-28 13:46:32	13	AGUA-01	20.75	34.75	12.17	1786.0	8.22	25.0	60.7	13.3
1999-12-31 23:16:46	2025-10-28 14:48:32	13	AGUA-01	20.69	34.75	12.23	1806.0	8.31	22.0	62.0	20.8
1999-12-31 21:10:24	2025-10-28 15:48:17	13	AGUA-01	20.44	35.25	12.2	1749.0	8.4	24.0	59.8	-126.4

1999-12-31 22:12:12	2025-10-28 16:49:06	13	AGUA-01	20.38	36.0	12.25	1759.0	8.41	21.0	60.8	61.8
1999-12-31 21:10:23	2025-10-28 17:49:57	13	AGUA-01	20.25	37.0	12.27	1748.0	8.61	26.0	60.9	-61.8
1999-12-31 22:06:56	2025-10-28 18:50:45	13	AGUA-01	20.19	36.5	12.26	1742.0	8.84	27.0	60.8	56.5
1999-12-31 23:07:39	2025-10-28 19:51:28	13	AGUA-01	20.12	33.5	12.24	1718.0	9.17	24.0	60.7	60.7
2000-01-01 00:08:00	2025-10-28 20:51:49	13	AGUA-01	19.56	28.5	12.18	1718.0	9.23	22.0	60.4	60.4
1999-12-31 21:10:23	2025-10-28 21:52:33	13	AGUA-01	19.25	27.5	12.1	1711.0	9.26	24.0	60.7	-177.6
1999-12-31 21:21:40	2025-10-28 22:53:21	13	AGUA-01	19.06	27.25	12.22	1713.0	9.2	22.0	60.8	11.3
1999-12-31 21:10:23	2025-10-28 23:54:06	13	AGUA-01	18.94	26.0	12.18	1723.0	9.04	24.0	60.8	-11.3
1999-12-31 21:10:23	2025-10-29 00:54:39	13	AGUA-01	18.81	22.5	12.22	1723.0	8.89	23.0	60.5	0.0
1999-12-31 21:22:17	2025-10-29 01:55:18	13	AGUA-01	0.0	20.25	12.16	0.0	0.0	24.0	60.6	11.9
1999-12-31 21:10:23	2025-10-29 02:55:58	13	AGUA-01	0.0	18.5	12.18	0.0	0.0	24.0	60.7	-11.9
1999-12-31 22:11:12	2025-10-29 03:56:46	13	AGUA-01	18.62	18.0	12.19	1704.0	8.71	24.0	60.8	60.8
1999-12-31 21:10:23	2025-10-29 04:57:28	13	AGUA-01	0.0	17.5	12.1	0.0	0.0	26.0	60.7	-60.8
1999-12-31 21:10:23	2025-10-29 05:58:13	13	AGUA-01	18.44	16.75	12.11	1693.0	8.83	24.0	60.8	0.0
1999-12-31 21:10:24	2025-10-29 06:59:00	13	AGUA-01	0.0	16.25	12.1	0.0	0.0	25.0	60.8	0.0
1999-12-31 21:24:55	2025-10-29 07:59:58	13	AGUA-01	18.25	20.75	12.17	1691.0	8.73	25.0	61.0	14.5
1999-12-31 21:10:23	2025-10-29 09:01:21	13	AGUA-01	18.31	29.25	12.24	1701.0	8.77	23.0	61.4	-14.5
1999-12-31 21:10:23	2025-10-29 10:02:32	13	AGUA-01	19.31	34.25	12.21	1733.0	8.65	24.0	61.2	0.0
1999-12-31 21:10:23	2025-10-29 11:03:30	13	AGUA-01	20.44	36.75	12.24	1760.0	8.45	24.0	61.0	0.0

■ DATOS COMPLETOS - Página 4 (Filas 106-140)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
1999-12-31 22:11:14	2025-10-29 12:04:23	13	AGUA-01	20.12	37.5	12.2	1773.0	7.65	25.0	60.9	60.9
1999-12-31 21:10:24	2025-10-29 13:05:09	13	AGUA-01	20.19	36.25	12.23	1824.0	7.6	24.0	60.8	-60.8
1999-12-31 22:04:59	2025-10-29 14:05:49	13	AGUA-01	20.12	35.25	12.22	1768.0	7.84	24.0	60.7	54.6
1999-12-31 21:10:23	2025-10-29 15:06:37	13	AGUA-01	20.56	35.0	12.25	1784.0	8.22	23.0	60.8	-54.6
1999-12-31 21:10:23	2025-10-29 16:07:23	13	AGUA-01	21.0	35.0	12.22	1841.0	8.29	24.0	60.8	0.0
1999-12-31 21:34:04	2025-10-29 17:08:12	13	AGUA-01	21.44	35.5	12.22	1894.0	8.47	23.0	60.8	23.7
1999-12-31 22:04:11	2025-10-29 18:08:59	13	AGUA-01	21.25	34.5	12.18	1871.0	8.74	26.0	60.8	30.1
1999-12-31 23:04:55	2025-10-29 19:09:43	13	AGUA-01	20.88	35.5	12.24	1797.0	8.84	26.0	60.7	60.7
1999-12-31 21:10:24	2025-10-29 20:10:21	13	AGUA-01	20.38	30.25	12.25	1752.0	9.19	24.0	60.6	-114.5
1999-12-31 22:10:56	2025-10-29 21:10:53	13	AGUA-01	19.88	28.25	12.17	1731.0	9.16	24.0	60.5	60.5
1999-12-31 23:11:38	2025-10-29 22:11:36	13	AGUA-01	19.69	26.75	12.23	1713.0	9.18	24.0	60.7	60.7
2000-01-01 00:12:23	2025-10-29 23:12:21	13	AGUA-01	19.56	26.25	12.24	1717.0	8.97	25.0	60.8	60.8
2000-01-01 01:13:08	2025-10-30 00:13:05	13	AGUA-01	0.0	24.5	12.19	0.0	0.0	26.0	60.7	60.8
2000-01-01 02:13:44	2025-10-30 01:13:42	13	AGUA-01	0.0	21.5	12.16	0.0	0.0	22.0	60.6	60.6
2000-01-01 03:14:20	2025-10-30 02:14:17	13	AGUA-01	0.0	19.0	12.16	0.0	0.0	24.0	60.6	60.6
2000-01-01 04:15:08	2025-10-30 03:15:06	13	AGUA-01	19.06	18.25	12.16	1691.0	8.79	24.0	60.8	60.8

1999-12-31 21:10:24	2025-10-30 04:15:48	13	AGUA-01	19.0	17.0	12.02	1686.0	8.9	24.0	60.7	-424.7
1999-12-31 22:10:34	2025-10-30 05:16:32	13	AGUA-01	18.94	16.0	12.14	1688.0	8.82	24.0	60.7	60.2
1999-12-31 22:58:10	2025-10-30 06:17:19	13	AGUA-01	0.0	15.5	12.17	0.0	0.0	28.0	60.8	47.6
1999-12-31 23:58:58	2025-10-30 07:18:06	13	AGUA-01	0.0	15.75	12.11	0.0	0.0	26.0	60.8	60.8
2000-01-01 00:57:03	2025-10-30 08:19:17	13	AGUA-01	0.0	23.25	12.17	0.0	0.0	25.0	61.2	58.1
1999-12-31 21:10:23	2025-10-30 09:20:39	13	AGUA-01	18.69	30.25	12.17	1684.0	8.81	24.0	61.4	-226.7
1999-12-31 21:22:05	2025-10-30 10:21:44	13	AGUA-01	19.12	34.5	12.11	1697.0	8.91	23.0	61.1	11.7
1999-12-31 21:10:23	2025-10-30 11:22:41	13	AGUA-01	20.81	38.0	12.23	1758.0	8.34	23.0	61.0	-11.7
1999-12-31 22:11:16	2025-10-30 12:23:34	13	AGUA-01	21.5	38.0	12.19	1799.0	8.02	24.0	60.9	60.9
1999-12-31 23:12:01	2025-10-30 13:24:19	13	AGUA-01	20.75	37.0	12.23	1802.0	7.76	25.0	60.8	60.8
2000-01-01 00:12:40	2025-10-30 14:24:57	13	AGUA-01	21.25	35.75	12.22	1807.0	8.1	26.0	60.6	60.6
2000-01-01 00:36:17	2025-10-30 15:25:46	13	AGUA-01	21.38	36.0	12.25	1790.0	8.31	26.0	60.8	23.6
2000-01-01 00:47:33	2025-10-30 16:26:34	13	AGUA-01	21.31	36.25	12.27	1776.0	8.57	24.0	60.8	11.3
2000-01-01 00:58:29	2025-10-30 17:27:24	13	AGUA-01	21.5	36.75	12.3	1789.0	8.68	24.0	60.8	10.9
2000-01-01 01:10:21	2025-10-30 18:28:11	13	AGUA-01	21.19	36.0	12.24	1838.0	8.79	25.0	60.8	11.9
2000-01-01 01:21:37	2025-10-30 19:28:53	13	AGUA-01	21.19	33.25	12.21	1794.0	8.94	23.0	60.7	11.3
1999-12-31 21:10:23	2025-10-30 20:29:23	13	AGUA-01	20.44	28.0	12.18	1774.0	9.08	26.0	60.5	-251.2
1999-12-31 21:10:23	2025-10-30 21:29:59	13	AGUA-01	20.12	26.25	12.2	1786.0	9.07	28.0	60.6	0.0
1999-12-31 21:10:23	2025-10-30 22:30:44	13	AGUA-01	19.88	25.75	12.24	1793.0	8.98	24.0	60.8	0.0

■ DATOS COMPLETOS - Página 5 (Filas 141-175)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
1999-12-31 21:10:23	2025-10-30 23:31:32	13	AGUA-01	19.56	25.5	12.25	1776.0	8.9	28.0	60.8	0.0
1999-12-31 21:10:23	2025-10-31 00:32:16	13	AGUA-01	19.31	23.5	12.24	1751.0	9.04	23.0	60.7	0.0
1999-12-31 21:10:23	2025-10-31 01:32:55	13	AGUA-01	19.31	21.0	12.08	1761.0	8.89	26.0	60.6	0.0
1999-12-31 21:10:23	2025-10-31 02:33:33	13	AGUA-01	0.0	18.5	12.19	0.0	0.0	24.0	60.6	0.0
1999-12-31 21:10:24	2025-10-31 03:34:14	13	AGUA-01	0.0	17.5	12.13	0.0	0.0	24.0	60.7	0.0
1999-12-31 22:11:08	2025-10-31 04:34:59	13	AGUA-01	0.0	16.25	12.18	0.0	0.0	25.0	60.8	60.7
1999-12-31 23:11:51	2025-10-31 05:35:42	13	AGUA-01	0.0	16.0	12.22	0.0	0.0	26.0	60.7	60.7
2000-01-01 01:13:41	2025-10-31 07:37:31	13	AGUA-01	0.0	17.25	12.15	0.0	0.0	25.0	121.8	121.8
2000-01-01 01:25:36	2025-10-31 08:38:49	13	AGUA-01	0.0	23.25	12.18	0.0	0.0	23.0	61.3	11.9
1999-12-31 21:10:23	2025-10-31 09:39:57	13	AGUA-01	18.81	29.0	12.11	1746.0	8.74	23.0	61.1	-255.2
1999-12-31 21:10:23	2025-10-31 10:41:06	13	AGUA-01	19.56	32.75	12.2	1696.0	9.03	23.0	61.1	0.0
1999-12-31 21:10:23	2025-10-31 11:42:00	13	AGUA-01	20.44	32.75	12.18	1743.0	8.55	23.0	60.9	0.0
1999-12-31 21:10:23	2025-10-31 12:42:41	13	AGUA-01	20.69	31.25	12.22	1775.0	8.7	24.0	60.7	0.0
1999-12-31 21:10:23	2025-10-31 13:43:27	13	AGUA-01	20.31	30.75	12.13	1773.0	8.73	22.0	60.8	0.0
1999-12-31 21:10:23	2025-10-31 14:44:19	13	AGUA-01	20.44	31.75	12.25	1791.0	8.57	23.0	60.9	0.0
1999-12-31 21:21:22	2025-10-31 15:45:11	13	AGUA-01	21.0	31.5	12.23	1846.0	8.74	23.0	60.9	11.0

1999-12-31 21:32:20	2025-10-31 16:45:49	13	AGUA-01	21.0	29.75	12.24	1855.0	8.87	24.0	60.6	11.0
1999-12-31 21:10:23	2025-10-31 17:46:39	13	AGUA-01	20.62	28.25	12.3	1904.0	8.94	27.0	60.8	-21.9
1999-12-31 21:10:23	2025-10-31 18:47:12	13	AGUA-01	20.25	25.75	12.22	1857.0	8.95	24.0	60.5	0.0
2046-09-10 22:10:23	2025-10-31 19:47:49	13	AGUA-01	19.88	23.25	12.24	1830.0	9.0	24.0	60.6	24559260.0
2042-01-07 22:10:35	2025-10-31 20:48:32	13	AGUA-01	0.0	22.0	12.16	0.0	0.0	22.0	60.7	-2458079.8
2042-01-07 22:21:35	2025-10-31 21:49:15	13	AGUA-01	0.0	21.25	12.26	0.0	0.0	24.0	60.7	11.0
1999-12-31 21:10:23	2025-10-31 22:50:02	13	AGUA-01	0.0	21.25	12.16	0.0	0.0	27.0	60.8	-22101191.2
1999-12-31 21:10:23	2025-10-31 23:50:48	13	AGUA-01	0.0	21.0	12.16	0.0	0.0	29.0	60.8	0.0
1999-12-31 21:10:23	2025-11-01 00:51:34	13	AGUA-01	18.94	19.75	12.18	1731.0	8.76	22.0	60.8	0.0
1999-12-31 21:10:23	2025-11-01 01:52:17	13	AGUA-01	0.0	18.5	12.12	0.0	0.0	24.0	60.7	0.0
1999-12-31 21:10:23	2025-11-01 02:53:02	13	AGUA-01	0.0	17.25	12.15	0.0	0.0	23.0	60.8	0.0
1999-12-31 21:10:23	2025-11-01 03:53:45	13	AGUA-01	18.5	16.75	12.11	1725.0	8.59	22.0	60.7	0.0
1999-12-31 22:11:13	2025-11-01 04:54:36	13	AGUA-01	18.38	17.5	12.15	1732.0	8.57	24.0	60.9	60.8
1999-12-31 23:11:31	2025-11-01 05:55:27	13	AGUA-01	18.31	16.75	12.05	1727.0	8.57	25.0	60.9	60.3
2000-01-01 00:12:10	2025-11-01 06:56:05	13	AGUA-01	0.0	15.25	12.15	0.0	0.0	24.0	60.6	60.6
2000-01-01 01:13:02	2025-11-01 07:56:57	13	AGUA-01	0.0	18.75	12.01	0.0	0.0	23.0	60.9	60.9
1999-12-31 21:10:23	2025-11-01 08:58:12	13	AGUA-01	0.0	25.25	12.1	0.0	0.0	23.0	61.2	-242.7
1999-12-31 21:10:23	2025-11-01 09:59:20	13	AGUA-01	18.44	29.75	12.24	1674.0	8.88	22.0	61.1	0.0
1999-12-31 21:10:23	2025-11-01 11:00:17	13	AGUA-01	19.88	31.75	12.24	1720.0	8.93	25.0	61.0	0.0

■ DATOS COMPLETOS - Página 6 (Filas 176-210)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
1999-12-31 21:23:31	2025-11-01 12:01:10	13	AGUA-01	20.81	33.0	12.2	1766.0	8.4	24.0	60.9	13.1
1999-12-31 21:54:48	2025-11-01 13:02:04	13	AGUA-01	21.0	34.25	12.18	1777.0	8.09	23.0	60.9	31.3
1999-12-31 22:57:54	2025-11-01 14:02:55	13	AGUA-01	21.38	33.75	12.13	1814.0	8.19	23.0	60.9	63.1
1999-12-31 23:18:03	2025-11-01 15:03:41	13	AGUA-01	21.5	33.5	12.17	1833.0	8.4	23.0	60.8	20.1
1999-12-31 23:29:01	2025-11-01 16:04:30	13	AGUA-01	22.38	34.0	12.22	1853.0	8.77	24.0	60.8	11.0
1999-12-31 23:40:14	2025-11-01 17:05:21	13	AGUA-01	21.88	35.25	12.13	1794.0	8.89	26.0	60.9	11.2
1999-12-31 23:52:57	2025-11-01 18:06:15	13	AGUA-01	22.0	36.5	12.32	1844.0	8.81	26.0	60.9	12.7
2000-01-01 00:04:29	2025-11-01 19:07:02	13	AGUA-01	21.38	35.75	12.17	1785.0	8.93	25.0	60.8	11.5
2000-01-01 00:15:39	2025-11-01 20:07:39	13	AGUA-01	20.75	30.5	12.3	1756.0	9.08	23.0	60.6	11.2
1999-12-31 21:10:23	2025-11-01 21:08:05	13	AGUA-01	19.88	27.25	12.1	1711.0	9.07	22.0	60.4	-185.3
1999-12-31 21:10:23	2025-11-01 22:08:50	13	AGUA-01	19.56	26.5	12.24	1701.0	8.92	24.0	60.8	0.0
1999-12-31 21:10:23	2025-11-01 23:09:32	13	AGUA-01	0.0	24.75	12.24	0.0	0.0	22.0	60.7	0.0
1999-12-31 21:10:23	2025-11-02 00:10:12	13	AGUA-01	0.0	22.25	12.2	0.0	0.0	25.0	60.7	0.0
2000-01-07 21:10:37	2025-11-02 01:10:46	13	AGUA-01	0.0	19.75	12.1	0.0	0.0	23.0	60.6	10080.2
2000-01-07 21:21:34	2025-11-02 02:11:30	13	AGUA-01	19.12	18.75	12.05	1713.0	8.51	24.0	60.7	10.9
1999-12-31 21:10:23	2025-11-02 03:12:11	13	AGUA-01	0.0	17.75	12.21	0.0	0.0	23.0	60.7	-10091.2

1999-12-31 21:10:23	2025-11-02 04:12:56	13	AGUA-01	18.94	17.0	12.17	1755.0	8.48	25.0	60.8	0.0
1999-12-31 22:11:05	2025-11-02 05:13:38	13	AGUA-01	18.81	16.25	12.12	1697.0	8.7	23.0	60.7	60.7
1999-12-31 23:11:50	2025-11-02 06:14:23	13	AGUA-01	0.0	15.5	12.17	0.0	0.0	22.0	60.8	60.8
2000-01-01 00:12:35	2025-11-02 07:15:09	13	AGUA-01	0.0	15.5	12.14	0.0	0.0	22.0	60.8	60.8
2000-01-01 01:13:47	2025-11-02 08:16:20	13	AGUA-01	0.0	22.5	12.16	0.0	0.0	22.0	61.2	61.2
1999-12-31 21:10:23	2025-11-02 09:17:39	13	AGUA-01	18.88	30.0	12.16	1711.0	9.02	23.0	61.3	-243.4
1999-12-31 21:10:23	2025-11-02 10:18:52	13	AGUA-01	19.81	35.25	12.25	1713.0	9.26	23.0	61.2	0.0
1999-12-31 21:21:24	2025-11-02 11:19:52	13	AGUA-01	20.88	36.75	12.2	1758.0	8.62	22.0	61.0	11.0
1999-12-31 21:36:23	2025-11-02 12:20:41	13	AGUA-01	21.69	37.5	12.22	1792.0	8.06	25.0	60.8	15.0
2001-12-31 21:10:23	2025-11-02 13:21:25	13	AGUA-01	21.56	36.0	12.29	1813.0	8.12	23.0	60.7	1052614.0
2001-12-31 21:21:23	2025-11-02 14:22:09	13	AGUA-01	21.94	36.0	12.26	1851.0	8.17	25.0	60.7	11.0
2001-12-31 21:32:27	2025-11-02 15:22:58	13	AGUA-01	22.38	36.5	12.24	1828.0	8.56	21.0	60.8	11.1
2001-12-31 21:43:38	2025-11-02 16:23:47	13	AGUA-01	22.94	36.5	12.28	1907.0	8.46	23.0	60.8	11.2
2001-12-31 21:54:35	2025-11-02 17:24:34	13	AGUA-01	22.06	35.75	12.31	1834.0	8.76	22.0	60.8	10.9
2001-12-31 22:08:01	2025-11-02 18:25:20	13	AGUA-01	21.56	35.0	12.26	1816.0	8.85	22.0	60.8	13.4
2001-12-31 23:12:29	2025-11-02 19:26:00	13	AGUA-01	21.38	32.25	12.2	1794.0	8.97	22.0	60.7	64.5
2001-12-31 23:23:30	2025-11-02 20:26:30	13	AGUA-01	20.5	27.0	12.2	1787.0	9.08	21.0	60.5	11.0
2001-12-31 23:36:11	2025-11-02 21:27:05	13	AGUA-01	20.31	24.5	12.22	1780.0	9.04	28.0	60.6	12.7
2002-01-01 00:02:53	2025-11-02 22:27:46	13	AGUA-01	20.25	23.25	12.24	1771.0	9.03	24.0	60.7	26.7

■ DATOS COMPLETOS - Página 7 (Filas 211-245)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
2002-01-01 00:15:02	2025-11-02 23:28:31	13	AGUA-01	19.94	22.5	12.21	1760.0	9.0	23.0	60.8	12.2
2002-01-01 00:27:20	2025-11-03 00:29:16	13	AGUA-01	0.0	21.25	12.17	0.0	0.0	22.0	60.8	12.3
2002-01-01 00:52:58	2025-11-03 01:30:00	13	AGUA-01	0.0	19.75	12.13	0.0	0.0	23.0	60.7	25.6
2002-01-01 01:04:15	2025-11-03 02:30:40	13	AGUA-01	19.5	18.0	12.16	1748.0	8.48	23.0	60.7	11.3
2002-01-01 01:15:13	2025-11-03 03:31:24	13	AGUA-01	19.5	17.0	12.24	1730.0	8.48	22.0	60.7	11.0
2002-01-01 01:29:15	2025-11-03 04:32:09	13	AGUA-01	0.0	16.25	12.13	0.0	0.0	23.0	60.8	14.0
2002-01-01 01:40:25	2025-11-03 05:32:58	13	AGUA-01	0.0	16.5	12.13	0.0	0.0	23.0	60.8	11.2
2002-01-01 01:55:50	2025-11-03 06:33:44	13	AGUA-01	0.0	16.0	12.12	0.0	0.0	23.0	60.8	15.4
2002-01-01 02:22:10	2025-11-03 07:34:31	13	AGUA-01	0.0	16.75	12.11	0.0	0.0	26.0	60.8	26.3
2002-01-01 02:33:54	2025-11-03 08:35:31	13	AGUA-01	0.0	19.5	12.17	0.0	0.0	23.0	61.0	11.7
2002-01-01 02:45:06	2025-11-03 09:36:35	13	AGUA-01	19.0	24.25	12.18	1722.0	8.82	26.0	61.1	11.2
2002-01-01 02:56:14	2025-11-03 10:37:39	13	AGUA-01	19.12	27.5	12.18	1724.0	8.78	25.0	61.1	11.1
1999-12-31 21:10:23	2025-11-03 11:38:28	13	AGUA-01	19.81	27.5	12.24	1754.0	8.82	23.0	60.8	-1052985.9
1999-12-31 21:21:18	2025-11-03 12:39:15	13	AGUA-01	20.25	27.25	12.21	1823.0	8.73	24.0	60.8	10.9
1999-12-31 22:19:43	2025-11-03 13:40:09	13	AGUA-01	21.12	29.0	12.24	1849.0	8.65	24.0	60.9	58.4
1999-12-31 22:30:50	2025-11-03 14:41:02	13	AGUA-01	21.56	30.25	12.22	1893.0	8.54	25.0	60.9	11.1

2001-12-31 21:12:45	2025-11-03 15:41:53	13	AGUA-01	21.69	31.0	12.29	1913.0	8.43	22.0	60.9	1052561.9
2026-09-10 22:10:23	2025-11-03 16:42:43	13	AGUA-01	21.75	31.25	12.15	1888.0	8.54	25.0	60.8	12987417.6
1999-12-31 21:10:23	2025-11-03 17:43:29	13	AGUA-01	21.56	30.75	12.24	1871.0	8.63	22.0	60.8	-14040060.0
1999-12-31 21:21:26	2025-11-03 18:44:12	13	AGUA-01	20.88	29.25	12.25	1838.0	8.85	22.0	60.7	11.1
1999-12-31 21:32:24	2025-11-03 19:44:53	13	AGUA-01	20.62	26.25	12.24	1818.0	8.95	22.0	60.7	11.0
1999-12-31 21:43:20	2025-11-03 20:45:19	13	AGUA-01	0.0	22.25	12.24	0.0	0.0	25.0	60.4	10.9
1999-12-31 21:54:32	2025-11-03 21:46:03	13	AGUA-01	0.0	21.25	12.19	0.0	0.0	23.0	60.7	11.2
1999-12-31 22:05:39	2025-11-03 22:46:48	13	AGUA-01	19.81	20.25	12.2	1778.0	8.76	23.0	60.8	11.1
1999-12-31 22:16:39	2025-11-03 23:47:32	13	AGUA-01	0.0	19.75	12.17	0.0	0.0	23.0	60.7	11.0
1999-12-31 22:28:03	2025-11-04 00:48:18	13	AGUA-01	0.0	18.5	12.15	0.0	0.0	25.0	60.8	11.4
1999-12-31 22:39:00	2025-11-04 01:49:01	13	AGUA-01	0.0	19.25	12.15	0.0	0.0	22.0	60.7	10.9
1999-12-31 22:50:02	2025-11-04 02:49:56	13	AGUA-01	0.0	19.75	12.14	0.0	0.0	22.0	60.9	11.0
1999-12-31 23:01:00	2025-11-04 03:50:47	13	AGUA-01	0.0	20.0	12.17	0.0	0.0	27.0	60.9	11.0
1999-12-31 23:12:04	2025-11-04 04:51:37	13	AGUA-01	0.0	20.0	12.13	0.0	0.0	22.0	60.8	11.1
2000-01-08 22:34:58	2025-11-04 05:52:28	13	AGUA-01	0.0	20.0	12.17	0.0	0.0	22.0	60.9	11482.9
2000-01-08 22:46:08	2025-11-04 06:53:15	13	AGUA-01	0.0	20.0	12.13	0.0	0.0	23.0	60.8	11.2
2000-01-08 22:57:14	2025-11-04 07:54:05	13	AGUA-01	0.0	20.75	12.24	0.0	0.0	26.0	60.8	11.1
2000-01-08 23:08:23	2025-11-04 08:55:10	13	AGUA-01	18.62	26.25	12.19	1734.0	8.11	23.0	61.1	11.2
1999-12-31 21:10:23	2025-11-04 09:56:11	13	AGUA-01	19.12	28.0	12.18	1717.0	8.65	24.0	61.0	-11638.0

■ DATOS COMPLETOS - Página 8 (Filas 246-280)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
1999-12-31 21:21:22	2025-11-04 10:57:08	13	AGUA-01	19.94	30.5	12.17	1747.0	8.96	23.0	61.0	11.0
1999-12-31 22:32:42	2025-11-04 11:58:03	13	AGUA-01	21.44	33.0	12.22	1768.0	8.95	25.0	60.9	71.3
1999-12-31 23:14:39	2025-11-04 12:59:00	13	AGUA-01	22.81	34.5	12.22	1823.0	8.77	26.0	61.0	42.0
1999-12-31 23:28:40	2025-11-04 13:59:49	13	AGUA-01	22.5	34.25	12.3	1800.0	8.47	25.0	60.8	14.0
1999-12-31 23:47:47	2025-11-04 15:00:34	13	AGUA-01	23.19	33.75	12.25	1730.0	8.89	26.0	60.8	19.1
2040-01-10 22:10:23	2025-11-04 16:01:23	13	AGUA-01	23.62	34.5	12.21	1702.0	9.04	25.0	60.8	21052702.6
2040-01-10 23:11:12	2025-11-04 17:02:12	13	AGUA-01	23.06	35.0	12.25	1817.0	9.27	26.0	60.8	60.8
1999-12-31 21:10:23	2025-11-04 19:03:52	13	AGUA-01	21.94	33.5	12.24	1740.0	9.32	23.0	121.7	-21052920.8
1999-12-31 21:10:23	2025-11-04 20:04:33	13	AGUA-01	21.0	29.0	12.23	1717.0	9.38	25.0	60.7	0.0
1999-12-31 21:21:22	2025-11-04 21:04:56	13	AGUA-01	20.5	25.5	12.18	1698.0	9.27	23.0	60.4	11.0
1999-12-31 21:10:23	2025-11-04 22:05:39	13	AGUA-01	20.25	24.5	12.19	1695.0	9.11	24.0	60.7	-11.0
1999-12-31 21:21:19	2025-11-04 23:06:27	13	AGUA-01	0.0	22.75	12.18	0.0	0.0	27.0	60.8	10.9
1999-12-31 21:10:23	2025-11-05 00:07:07	13	AGUA-01	0.0	21.25	12.21	0.0	0.0	25.0	60.7	-10.9
1999-12-31 21:23:03	2025-11-05 01:07:51	13	AGUA-01	0.0	20.0	12.14	0.0	0.0	24.0	60.7	12.7
1999-12-31 21:34:40	2025-11-05 02:08:33	13	AGUA-01	19.69	17.5	12.17	1709.0	8.74	24.0	60.7	11.6
1999-12-31 22:13:07	2025-11-05 03:09:19	13	AGUA-01	0.0	17.0	12.19	0.0	0.0	25.0	60.8	38.5

1999-12-31 23:13:49	2025-11-05 04:10:02	13	AGUA-01	0.0	15.5	12.24	0.0	0.0	24.0	60.7	60.7
2000-01-01 00:14:36	2025-11-05 05:10:49	13	AGUA-01	0.0	15.75	12.11	0.0	0.0	24.0	60.8	60.8
2000-01-01 01:15:26	2025-11-05 06:11:38	13	AGUA-01	0.0	15.0	12.1	0.0	0.0	25.0	60.8	60.8
2000-01-01 02:16:12	2025-11-05 07:12:23	13	AGUA-01	19.44	15.0	12.24	1708.0	9.02	25.0	60.8	60.8
1999-12-31 21:10:23	2025-11-05 09:15:03	13	AGUA-01	19.5	27.75	12.16	1723.0	9.09	24.0	122.7	-305.8
2002-01-10 22:10:23	2025-11-05 10:16:10	13	AGUA-01	20.19	32.75	12.2	1739.0	9.29	28.0	61.1	1067100.0
2002-01-10 22:23:51	2025-11-05 11:17:10	13	AGUA-01	21.81	35.0	12.11	1769.0	9.04	25.0	61.0	13.5
2002-01-10 22:38:57	2025-11-05 12:17:55	13	AGUA-01	21.38	34.75	12.25	1782.0	8.55	23.0	60.8	15.1
2002-01-10 23:10:58	2025-11-05 13:18:43	13	AGUA-01	21.88	33.5	12.24	1804.0	8.81	22.0	60.8	32.0
2025-11-05 14:15:11	2025-11-05 14:15:53	13	AGUA-01	21.94	32.5	12.46	1800.0	8.93	26.0	57.2	12527464.2
2025-11-05 14:26:11	2025-11-05 14:26:53	13	AGUA-01	22.25	33.5	12.46	1795.0	9.01	24.0	11.0	11.0
2025-11-05 15:26:19	2025-11-05 15:27:01	13	AGUA-01	22.5	34.0	12.47	1835.0	8.98	25.0	60.1	60.1
2025-11-05 16:27:07	2025-11-05 16:27:49	13	AGUA-01	22.62	33.5	12.47	1856.0	8.96	23.0	60.8	60.8
2025-11-05 17:27:53	2025-11-05 17:28:35	13	AGUA-01	22.06	33.5	12.47	1820.0	9.14	25.0	60.8	60.8
2025-11-05 18:28:39	2025-11-05 18:29:21	13	AGUA-01	21.81	33.25	12.47	1834.0	9.09	25.0	60.8	60.8
2025-11-05 19:29:23	2025-11-05 19:30:05	13	AGUA-01	21.62	32.0	12.47	1791.0	9.19	27.0	60.7	60.7
2025-11-05 20:29:54	2025-11-05 20:30:36	13	AGUA-01	20.94	26.0	12.44	1768.0	9.39	26.0	60.5	60.5
2025-11-05 21:30:29	2025-11-05 21:31:11	13	AGUA-01	20.75	23.25	12.42	1755.0	9.44	26.0	60.6	60.6
2025-11-05 22:31:07	2025-11-05 22:31:48	13	AGUA-01	20.5	21.5	12.42	1759.0	9.36	25.0	60.6	60.6

■ DATOS COMPLETOS - Página 9 (Filas 281-315)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
2025-11-05 23:31:49	2025-11-05 23:32:30	13	AGUA-01	20.31	20.5	12.41	1750.0	9.34	25.0	60.7	60.7
2025-11-06 00:32:32	2025-11-06 00:33:14	13	AGUA-01	20.06	19.5	12.39	1742.0	9.25	26.0	60.7	60.7
2025-11-06 01:33:16	2025-11-06 01:33:58	13	AGUA-01	19.88	18.75	12.39	1733.0	9.09	25.0	60.7	60.7
2025-11-06 02:33:58	2025-11-06 02:34:40	13	AGUA-01	19.75	17.75	12.39	1727.0	9.02	24.0	60.7	60.7
2025-11-06 03:34:40	2025-11-06 03:35:22	13	AGUA-01	19.69	16.25	12.37	1733.0	9.05	25.0	60.7	60.7
2025-11-06 04:35:25	2025-11-06 04:36:07	13	AGUA-01	19.5	17.0	12.37	1734.0	8.74	25.0	60.8	60.8
2025-11-06 05:36:17	2025-11-06 05:36:58	13	AGUA-01	19.38	18.25	12.37	1753.0	8.51	25.0	60.9	60.9
2025-11-06 06:37:04	2025-11-06 06:37:46	13	AGUA-01	19.19	18.5	12.37	1749.0	8.57	24.0	60.8	60.8
2025-11-06 07:37:52	2025-11-06 07:38:34	13	AGUA-01	19.12	19.0	12.38	1751.0	8.49	28.0	60.8	60.8
2025-11-06 08:38:42	2025-11-06 08:39:24	13	AGUA-01	19.0	19.75	12.39	1742.0	8.38	22.0	60.8	60.8
2025-11-06 09:39:31	2025-11-06 09:40:14	13	AGUA-01	18.94	20.75	12.41	1736.0	8.35	24.0	60.8	60.8
2025-11-06 10:40:19	2025-11-06 10:41:02	13	AGUA-01	18.88	21.5	12.4	1728.0	8.49	25.0	60.8	60.8
2025-11-06 11:41:09	2025-11-06 11:41:56	13	AGUA-01	18.81	22.25	12.41	1726.0	8.38	25.0	60.9	60.8
2025-11-06 12:42:04	2025-11-06 12:42:46	13	AGUA-01	19.44	26.5	12.44	1732.0	8.13	24.0	60.8	60.9
2025-11-06 13:43:00	2025-11-06 13:43:42	13	AGUA-01	19.94	27.0	12.43	1742.0	8.42	24.0	60.9	60.9
2025-11-06 15:44:51	2025-11-06 15:45:34	13	AGUA-01	20.5	29.0	12.47	1754.0	8.67	25.0	121.9	121.8

2025-11-06 16:45:34	2025-11-06 16:46:16	13	AGUA-01	20.56	27.25	12.46	1759.0	9.01	26.0	60.7	60.7
2025-11-06 17:46:16	2025-11-06 17:46:58	13	AGUA-01	19.94	26.0	12.46	1746.0	9.12	24.0	60.7	60.7
2025-11-06 18:46:54	2025-11-06 18:47:37	13	AGUA-01	19.62	23.5	12.44	1735.0	9.23	25.0	60.6	60.6
2025-11-06 19:47:35	2025-11-06 19:48:17	13	AGUA-01	19.44	21.75	12.44	1734.0	9.05	25.0	60.7	60.7
2025-11-06 20:48:16	2025-11-06 20:48:58	13	AGUA-01	19.06	20.75	12.42	1726.0	8.94	24.0	60.7	60.7
2025-11-06 21:49:01	2025-11-06 21:49:43	13	AGUA-01	18.88	20.0	12.41	1713.0	8.92	25.0	60.8	60.8
2025-11-06 22:49:46	2025-11-06 22:50:28	13	AGUA-01	18.81	19.75	12.39	1706.0	8.9	26.0	60.8	60.8
2025-11-06 23:50:32	2025-11-06 23:51:14	13	AGUA-01	18.69	18.75	12.39	1690.0	8.83	26.0	60.8	60.8
2025-11-07 00:51:16	2025-11-07 00:51:58	13	AGUA-01	18.56	18.0	12.39	1688.0	8.54	26.0	60.7	60.7
2025-11-07 01:51:59	2025-11-07 01:52:41	13	AGUA-01	18.44	17.5	12.37	1704.0	8.42	25.0	60.7	60.7
2025-11-07 02:52:43	2025-11-07 02:53:25	13	AGUA-01	18.31	17.0	12.37	1711.0	8.4	24.0	60.7	60.7
2025-11-07 03:53:24	2025-11-07 03:54:06	13	AGUA-01	18.19	15.5	12.37	1693.0	8.53	25.0	60.7	60.7
2025-11-07 04:54:06	2025-11-07 04:54:48	13	AGUA-01	18.06	15.25	12.35	1682.0	8.41	27.0	60.7	60.7
2025-11-07 05:54:51	2025-11-07 05:55:33	13	AGUA-01	17.88	15.25	12.36	1677.0	8.38	25.0	60.8	60.8
2025-11-07 06:55:34	2025-11-07 06:56:17	13	AGUA-01	17.81	15.25	12.35	1681.0	8.36	26.0	60.7	60.7
2025-11-07 07:56:24	2025-11-07 07:57:06	13	AGUA-01	17.62	17.25	12.39	1678.0	8.29	25.0	60.8	60.8
2025-11-07 08:57:33	2025-11-07 08:58:15	13	AGUA-01	17.75	21.75	12.41	1684.0	8.22	26.0	61.1	61.1
2025-11-07 09:58:30	2025-11-07 09:59:11	13	AGUA-01	18.12	27.25	12.42	1670.0	8.47	24.0	60.9	61.0
2025-11-07 10:59:28	2025-11-07 11:00:10	13	AGUA-01	19.75	30.0	12.45	1712.0	9.13	27.0	61.0	61.0

■ DATOS COMPLETOS - Página 10 (Filas 316-350)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
2025-11-07 12:00:19	2025-11-07 12:01:01	13	AGUA-01	20.94	31.5	12.46	1745.0	8.49	21.0	60.9	60.9
2025-11-07 13:01:07	2025-11-07 13:01:50	13	AGUA-01	22.06	32.5	12.46	1801.0	8.4	25.0	60.8	60.8
2025-11-07 14:01:57	2025-11-07 14:02:38	13	AGUA-01	22.06	33.75	12.46	1793.0	7.81	26.0	60.8	60.8
2025-11-07 15:02:48	2025-11-07 15:03:30	13	AGUA-01	23.88	33.25	12.47	1867.0	8.91	24.0	60.9	60.9
2025-11-07 16:03:32	2025-11-07 16:04:14	13	AGUA-01	23.56	35.5	12.48	1768.0	8.32	25.0	60.7	60.7
2025-11-07 17:04:25	2025-11-07 17:05:07	13	AGUA-01	22.44	36.25	12.47	1689.0	8.2	25.0	60.9	60.9
2025-11-07 18:05:11	2025-11-07 18:05:54	13	AGUA-01	21.12	36.25	12.47	1668.0	8.11	26.0	60.8	60.8
2025-11-07 19:05:57	2025-11-07 19:06:39	13	AGUA-01	20.44	34.5	12.47	1639.0	8.53	24.0	60.8	60.8
2025-11-07 20:06:29	2025-11-07 20:07:12	13	AGUA-01	21.25	29.25	12.47	1726.0	9.7	24.0	60.5	60.5
2025-11-07 21:06:54	2025-11-07 21:07:36	13	AGUA-01	20.94	25.75	12.44	1723.0	9.76	24.0	60.4	60.4
2025-11-07 22:07:35	2025-11-07 22:08:16	13	AGUA-01	20.38	24.5	12.42	1694.0	9.7	24.0	60.7	60.7
2025-11-07 23:08:18	2025-11-07 23:09:02	13	AGUA-01	19.88	23.25	12.41	1666.0	9.5	25.0	60.8	60.7
2025-11-08 00:08:54	2025-11-08 00:09:35	13	AGUA-01	19.38	20.5	12.4	1660.0	9.34	26.0	60.5	60.6
2025-11-08 01:09:31	2025-11-08 01:10:13	13	AGUA-01	19.19	18.5	12.39	1661.0	9.29	25.0	60.6	60.6
2025-11-08 02:10:11	2025-11-08 02:10:53	13	AGUA-01	19.0	17.0	12.39	1670.0	9.12	26.0	60.7	60.7
2025-11-08 03:10:52	2025-11-08 03:11:34	13	AGUA-01	18.88	16.0	12.38	1683.0	8.65	25.0	60.7	60.7

2025-11-08 04:11:34	2025-11-08 04:12:16	13	AGUA-01	18.69	15.25	12.36	1699.0	8.47	25.0	60.7	60.7
2025-11-08 05:12:18	2025-11-08 05:13:00	13	AGUA-01	18.69	14.75	12.36	1690.0	8.47	25.0	60.7	60.7
2025-11-08 06:13:02	2025-11-08 06:13:44	13	AGUA-01	18.81	14.5	12.35	1674.0	8.46	24.0	60.7	60.7
2025-11-08 07:13:51	2025-11-08 07:14:33	13	AGUA-01	18.5	14.75	12.35	1655.0	8.74	27.0	60.8	60.8
2025-11-08 08:15:01	2025-11-08 08:15:43	13	AGUA-01	18.06	22.0	12.39	1659.0	8.69	24.0	61.2	61.2
2025-11-08 09:16:04	2025-11-08 09:16:46	13	AGUA-01	18.19	26.0	12.42	1661.0	8.76	24.0	61.0	61.0
2025-11-08 10:17:17	2025-11-08 10:17:59	13	AGUA-01	18.88	32.5	12.45	1681.0	9.12	24.0	61.2	61.2
2025-11-08 11:18:10	2025-11-08 11:18:53	13	AGUA-01	19.88	32.0	12.46	1710.0	8.35	27.0	60.9	60.9
2025-11-08 12:18:46	2025-11-08 12:19:28	13	AGUA-01	20.19	30.25	12.45	1736.0	8.33	24.0	60.6	60.6
2025-11-08 13:19:32	2025-11-08 13:20:13	13	AGUA-01	20.06	30.5	12.46	1749.0	8.2	27.0	60.8	60.8
2025-11-08 14:20:16	2025-11-08 14:20:59	13	AGUA-01	20.19	31.25	12.46	1797.0	7.81	21.0	60.8	60.7
2025-11-08 15:21:05	2025-11-08 15:21:47	13	AGUA-01	20.88	31.0	12.47	1857.0	7.92	27.0	60.8	60.8
2025-11-08 16:21:50	2025-11-08 16:22:32	13	AGUA-01	21.19	31.25	12.46	1905.0	7.96	22.0	60.8	60.8
2025-11-08 17:22:37	2025-11-08 17:23:19	13	AGUA-01	21.31	31.0	12.46	1877.0	8.21	26.0	60.8	60.8
2025-11-08 18:23:22	2025-11-08 18:24:04	13	AGUA-01	21.06	30.25	12.47	1852.0	8.41	24.0	60.8	60.8
2025-11-08 19:24:05	2025-11-08 19:24:48	13	AGUA-01	20.62	28.5	12.46	1827.0	8.55	27.0	60.7	60.7
2025-11-08 20:24:38	2025-11-08 20:25:21	13	AGUA-01	20.12	23.0	12.42	1794.0	8.76	22.0	60.5	60.5
2025-11-08 21:25:13	2025-11-08 21:25:55	13	AGUA-01	19.88	21.25	12.42	1796.0	8.68	23.0	60.6	60.6
2025-11-08 22:25:55	2025-11-08 22:26:37	13	AGUA-01	19.62	20.25	12.39	1793.0	8.6	25.0	60.7	60.7

■ DATOS COMPLETOS - Página 11 (Filas 351-385)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
2025-11-08 23:26:39	2025-11-08 23:27:21	13	AGUA-01	19.38	19.5	12.39	1772.0	8.53	22.0	60.7	60.7
2025-11-09 00:27:25	2025-11-09 00:28:07	13	AGUA-01	19.19	19.0	12.39	1773.0	8.54	25.0	60.8	60.8
2025-11-09 01:28:06	2025-11-09 01:28:48	13	AGUA-01	18.94	18.5	12.38	1755.0	8.37	24.0	60.7	60.7
2025-11-09 02:28:50	2025-11-09 02:29:32	13	AGUA-01	18.88	18.75	12.39	1737.0	8.39	24.0	60.7	60.7
2025-11-09 03:29:38	2025-11-09 03:30:20	13	AGUA-01	18.75	19.25	12.38	1721.0	8.39	24.0	60.8	60.8
2025-11-09 04:30:27	2025-11-09 04:31:09	13	AGUA-01	18.62	19.75	12.38	1718.0	8.28	23.0	60.8	60.8
2025-11-09 05:31:14	2025-11-09 05:31:56	13	AGUA-01	18.69	20.0	12.39	1760.0	8.23	24.0	60.8	60.8
2025-11-09 06:32:00	2025-11-09 06:32:42	13	AGUA-01	18.56	19.75	12.38	1749.0	8.18	24.0	60.8	60.8
2025-11-09 07:32:46	2025-11-09 07:33:29	13	AGUA-01	18.31	20.0	12.37	1725.0	8.16	24.0	60.8	60.8
2025-11-09 08:33:35	2025-11-09 08:34:17	13	AGUA-01	18.19	21.0	12.39	1734.0	8.08	27.0	60.8	60.8
2025-11-09 09:34:25	2025-11-09 09:35:08	13	AGUA-01	18.19	22.25	12.4	1735.0	8.0	23.0	60.9	60.8
2025-11-09 10:35:16	2025-11-09 10:35:58	13	AGUA-01	18.25	23.75	12.41	1715.0	7.84	23.0	60.8	60.9
2025-11-09 11:36:15	2025-11-09 11:36:57	13	AGUA-01	18.81	28.75	12.44	1725.0	7.01	24.0	61.0	61.0
2025-11-09 12:37:14	2025-11-09 12:37:56	13	AGUA-01	19.19	30.5	12.44	1769.0	6.41	22.0	61.0	61.0
2025-11-09 13:38:06	2025-11-09 13:38:48	13	AGUA-01	20.12	32.0	12.46	1810.0	6.25	24.0	60.9	60.9
2025-11-09 14:38:53	2025-11-09 14:39:36	13	AGUA-01	21.12	31.75	12.45	1896.0	6.81	23.0	60.8	60.8

2025-11-09 15:39:40	2025-11-09 15:40:22	13	AGUA-01	21.0	32.0	12.47	1889.0	7.26	27.0	60.8	60.8
2025-11-09 16:40:28	2025-11-09 16:41:10	13	AGUA-01	21.5	32.25	12.47	1816.0	8.22	26.0	60.8	60.8
2025-11-09 17:41:14	2025-11-09 17:41:57	13	AGUA-01	21.69	32.5	12.46	1916.0	7.92	27.0	60.8	60.8
2025-11-09 18:42:02	2025-11-09 18:42:44	13	AGUA-01	21.31	32.25	12.46	1838.0	8.13	24.0	60.8	60.8
2025-11-09 19:42:46	2025-11-09 19:43:29	13	AGUA-01	20.44	30.25	12.47	1792.0	8.37	24.0	60.8	60.7
2025-11-09 20:43:14	2025-11-09 20:43:57	13	AGUA-01	19.81	24.75	12.44	1767.0	8.61	24.0	60.5	60.5
2025-11-09 21:43:52	2025-11-09 21:44:34	13	AGUA-01	19.56	22.75	12.41	1737.0	8.72	24.0	60.6	60.6
2025-11-09 22:44:35	2025-11-09 22:45:17	13	AGUA-01	19.38	22.0	12.41	1737.0	8.66	24.0	60.7	60.7
2025-11-09 23:45:17	2025-11-09 23:45:59	13	AGUA-01	19.19	20.5	12.39	1718.0	8.58	26.0	60.7	60.7
2025-11-10 00:45:58	2025-11-10 00:46:40	13	AGUA-01	19.12	19.25	12.39	1733.0	8.5	25.0	60.7	60.7
2025-11-10 01:46:36	2025-11-10 01:47:18	13	AGUA-01	18.88	17.25	12.38	1717.0	8.53	27.0	60.6	60.6
2025-11-10 02:47:19	2025-11-10 02:48:02	13	AGUA-01	18.75	16.25	12.37	1720.0	8.5	25.0	60.7	60.7
2025-11-10 03:47:58	2025-11-10 03:48:40	13	AGUA-01	18.94	15.25	12.36	1715.0	8.47	25.0	60.6	60.6
2025-11-10 04:48:40	2025-11-10 04:49:23	13	AGUA-01	18.88	14.5	12.34	1720.0	8.38	25.0	60.7	60.7
2025-11-10 05:49:23	2025-11-10 05:50:06	13	AGUA-01	18.94	13.75	12.35	1716.0	8.35	26.0	60.7	60.7
2025-11-10 06:50:06	2025-11-10 06:50:48	13	AGUA-01	18.44	13.25	12.33	1729.0	8.33	25.0	60.7	60.7
2025-11-10 07:50:59	2025-11-10 07:51:42	13	AGUA-01	18.12	18.0	12.38	1754.0	8.3	26.0	60.9	60.9
2025-11-10 08:52:18	2025-11-10 08:53:00	13	AGUA-01	18.19	24.5	12.4	1731.0	8.21	25.0	61.3	61.3
2025-11-10 09:53:13	2025-11-10 09:53:55	13	AGUA-01	18.75	29.5	12.42	1737.0	8.24	25.0	60.9	60.9

■ DATOS COMPLETOS - Página 12 (Filas 386-420)

fecha	fecha_insercion	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medicion
2025-11-10 10:54:12	2025-11-10 10:54:55	13	AGUA-01	19.81	32.25	12.44	1739.0	8.38	25.0	61.0	61.0
2025-11-10 11:55:07	2025-11-10 11:55:51	13	AGUA-01	21.06	33.75	12.45	1781.0	7.75	26.0	60.9	60.9
2025-11-10 12:55:42	2025-11-10 12:56:24	13	AGUA-01	21.75	31.0	12.44	1808.0	8.23	25.0	60.5	60.6
2025-11-10 13:56:27	2025-11-10 13:57:10	13	AGUA-01	20.75	31.25	12.46	1786.0	8.06	26.0	60.8	60.8
2025-11-10 14:57:17	2025-11-10 14:57:59	13	AGUA-01	21.0	32.5	12.46	1799.0	7.84	25.0	60.8	60.8
2025-11-10 15:58:04	2025-11-10 15:58:47	13	AGUA-01	21.25	32.25	12.46	1826.0	7.71	25.0	60.8	60.8
2025-11-10 16:58:51	2025-11-10 16:59:33	13	AGUA-01	20.88	32.0	12.46	1813.0	7.75	24.0	60.8	60.8
2025-11-10 17:59:36	2025-11-10 18:00:18	13	AGUA-01	21.06	31.25	12.47	1812.0	8.04	27.0	60.8	60.8
2025-11-10 19:00:19	2025-11-10 19:01:01	13	AGUA-01	20.44	29.5	12.46	1816.0	8.29	27.0	60.7	60.7
2025-11-10 20:00:57	2025-11-10 20:01:39	13	AGUA-01	20.0	26.25	12.44	1804.0	8.4	26.0	60.6	60.6
2025-11-10 21:01:24	2025-11-10 21:02:09	13	AGUA-01	19.62	22.5	12.42	1782.0	8.37	24.0	60.5	60.5
2025-11-10 22:02:08	2025-11-10 22:02:50	13	AGUA-01	19.44	21.75	12.4	1782.0	8.36	28.0	60.7	60.7
2025-11-10 23:02:55	2025-11-10 23:03:37	13	AGUA-01	19.19	21.25	12.4	1751.0	8.35	26.0	60.8	60.8
2025-11-11 00:03:34	2025-11-11 00:04:17	13	AGUA-01	19.0	19.5	12.39	1749.0	8.41	24.0	60.7	60.6
2025-11-11 01:04:15	2025-11-11 01:04:58	13	AGUA-01	18.75	18.5	12.39	1745.0	8.39	25.0	60.7	60.7
2025-11-11 02:05:01	2025-11-11 02:05:44	13	AGUA-01	18.5	18.5	12.38	1735.0	8.31	24.0	60.8	60.8

2025-11-11 03:05:44	2025-11-11 03:06:26	13	AGUA-01	18.56	16.75	12.36	1704.0	8.48	24.0	60.7	60.7
2025-11-11 04:06:27	2025-11-11 04:07:09	13	AGUA-01	18.38	16.0	12.37	1699.0	8.42	25.0	60.7	60.7
2025-11-11 05:07:07	2025-11-11 05:07:49	13	AGUA-01	18.38	14.75	12.35	1710.0	8.28	25.0	60.7	60.7
2025-11-11 06:07:50	2025-11-11 06:08:32	13	AGUA-01	18.25	14.75	12.35	1713.0	8.27	27.0	60.7	60.7
2025-11-11 07:08:32	2025-11-11 07:09:14	13	AGUA-01	18.44	14.25	12.35	1723.0	8.3	26.0	60.7	60.7
2025-11-11 08:09:31	2025-11-11 08:10:13	13	AGUA-01	17.75	19.25	12.39	1736.0	8.2	25.0	61.0	61.0
2025-11-11 09:10:39	2025-11-11 09:11:21	13	AGUA-01	17.94	23.0	12.41	1721.0	8.12	26.0	61.1	61.1
2025-11-11 11:12:49	2025-11-11 11:13:31	13	AGUA-01	19.69	31.0	12.46	1752.0	7.96	25.0	122.2	122.2
2025-11-11 12:13:38	2025-11-11 12:14:20	13	AGUA-01	20.19	31.25	12.44	1778.0	7.24	25.0	60.8	60.8
2025-11-11 13:14:24	2025-11-11 13:15:06	13	AGUA-01	20.12	32.0	12.45	1786.0	6.67	27.0	60.8	60.8
2025-11-11 14:15:13	2025-11-11 14:15:55	13	AGUA-01	20.5	33.0	12.45	1794.0	6.84	27.0	60.8	60.8
2025-11-11 15:15:56	2025-11-11 15:16:38	13	AGUA-01	21.06	32.25	12.46	1847.0	7.18	25.0	60.7	60.7
2025-11-11 16:16:43	2025-11-11 16:17:25	13	AGUA-01	22.0	33.0	12.47	1823.0	7.96	25.0	60.8	60.8
2025-11-11 17:17:32	2025-11-11 17:18:14	13	AGUA-01	21.81	34.0	12.47	1778.0	8.19	24.0	60.8	60.8
2025-11-11 19:19:14	2025-11-11 19:19:56	13	AGUA-01	21.12	33.5	12.47	1716.0	8.1	24.0	121.7	121.7
2025-11-11 20:19:50	2025-11-11 20:20:32	13	AGUA-01	19.88	28.25	12.44	1692.0	8.21	24.0	60.6	60.6
2025-11-11 21:20:21	2025-11-11 21:21:03	13	AGUA-01	19.62	25.75	12.42	1664.0	8.42	26.0	60.5	60.5
2025-11-11 22:21:02	2025-11-11 22:21:44	13	AGUA-01	19.38	24.5	12.41	1672.0	8.35	25.0	60.7	60.7
2025-11-11 23:21:44	2025-11-11 23:22:27	13	AGUA-01	19.12	23.5	12.4	1699.0	8.34	25.0	60.7	60.7

■ DATOS COMPLETOS - Página 13 (Filas 421-455)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
2025-11-12 00:22:21	2025-11-12 00:23:03	13	AGUA-01	18.88	21.0	12.41	1696.0	8.28	24.0	60.6	60.6
2025-11-12 01:23:03	2025-11-12 01:23:45	13	AGUA-01	18.81	20.0	12.39	1703.0	8.28	25.0	60.7	60.7
2025-11-12 02:23:48	2025-11-12 02:24:30	13	AGUA-01	18.69	20.5	12.39	1702.0	8.27	24.0	60.8	60.8
2025-11-12 03:24:32	2025-11-12 03:25:14	13	AGUA-01	18.62	18.75	12.38	1709.0	8.25	24.0	60.7	60.7
2025-11-12 04:25:14	2025-11-12 04:25:57	13	AGUA-01	18.81	19.25	12.39	1707.0	8.7	24.0	60.7	60.7
2025-11-12 05:26:06	2025-11-12 05:26:48	13	AGUA-01	18.69	19.5	12.37	1687.0	8.67	24.0	60.9	60.9
2025-11-12 06:26:42	2025-11-12 06:27:25	13	AGUA-01	18.56	16.5	12.37	1712.0	8.61	24.0	60.6	60.6
2025-11-12 07:27:25	2025-11-12 07:28:08	13	AGUA-01	18.5	17.5	12.36	1710.0	8.47	25.0	60.7	60.7
2025-11-12 08:28:37	2025-11-12 08:29:19	13	AGUA-01	18.56	24.5	12.4	1716.0	8.36	25.0	61.2	61.2
2025-11-12 09:29:34	2025-11-12 09:30:16	13	AGUA-01	18.94	28.0	12.42	1724.0	8.47	27.0	61.0	61.0
2025-11-12 10:30:42	2025-11-12 10:31:25	13	AGUA-01	19.69	33.0	12.44	1757.0	8.41	23.0	61.1	61.1
2025-11-12 11:31:37	2025-11-12 11:32:20	13	AGUA-01	21.19	36.25	12.46	1817.0	7.16	24.0	60.9	60.9
2025-11-12 12:32:28	2025-11-12 12:33:19	13	AGUA-01	20.44	37.0	12.45	1792.0	6.08	17.0	61.0	60.9
2025-11-12 13:33:24	2025-11-12 13:34:07	13	AGUA-01	21.56	36.75	12.47	1834.0	6.05	25.0	60.8	60.9
2025-11-12 14:34:11	2025-11-12 14:34:53	13	AGUA-01	22.19	36.75	12.47	1851.0	6.36	26.0	60.8	60.8
2025-11-12 15:34:55	2025-11-12 15:35:37	13	AGUA-01	21.88	36.5	12.47	1859.0	6.7	24.0	60.7	60.7

2025-11-12 16:35:41	2025-11-12 16:36:23	13	AGUA-01	22.5	37.0	12.47	1847.0	7.72	23.0	60.8	60.8
2025-11-12 17:36:30	2025-11-12 17:37:13	13	AGUA-01	22.19	37.75	12.48	1817.0	7.79	24.0	60.8	60.8
2025-11-12 18:37:18	2025-11-12 18:38:00	13	AGUA-01	21.75	37.75	12.47	1775.0	7.89	23.0	60.8	60.8
2025-11-12 19:38:00	2025-11-12 19:38:43	13	AGUA-01	20.88	36.5	12.47	1718.0	8.04	24.0	60.7	60.7
2025-11-12 20:38:32	2025-11-12 20:39:14	13	AGUA-01	20.5	30.5	12.46	1686.0	8.48	23.0	60.5	60.5
2025-11-12 21:39:06	2025-11-12 21:39:48	13	AGUA-01	19.81	28.25	12.44	1665.0	8.49	26.0	60.6	60.6
2025-11-12 22:39:49	2025-11-12 22:40:31	13	AGUA-01	19.62	27.0	12.42	1684.0	8.41	21.0	60.7	60.7
2025-11-12 23:40:25	2025-11-12 23:41:07	13	AGUA-01	19.56	24.0	12.41	1708.0	8.41	21.0	60.6	60.6
2025-11-13 00:41:07	2025-11-13 00:41:49	13	AGUA-01	19.38	23.0	12.39	1708.0	8.36	23.0	60.7	60.7
2025-11-13 01:41:50	2025-11-13 01:42:32	13	AGUA-01	19.31	22.25	12.4	1723.0	8.35	23.0	60.7	60.7
2025-11-13 02:42:32	2025-11-13 02:43:15	13	AGUA-01	19.19	20.5	12.39	1714.0	8.35	23.0	60.7	60.7
2025-11-13 03:43:13	2025-11-13 03:43:55	13	AGUA-01	19.19	19.0	12.39	1743.0	8.36	24.0	60.7	60.7
2025-11-13 04:43:54	2025-11-13 04:44:36	13	AGUA-01	19.19	17.75	12.38	1718.0	8.51	24.0	60.7	60.7
2025-11-13 05:44:36	2025-11-13 05:45:18	13	AGUA-01	19.06	16.75	12.36	1717.0	8.47	25.0	60.7	60.7
2025-11-13 06:45:20	2025-11-13 06:46:03	13	AGUA-01	18.94	16.25	12.36	1713.0	8.5	24.0	60.8	60.7
2025-11-13 07:46:12	2025-11-13 07:46:54	13	AGUA-01	18.81	20.0	12.39	1711.0	8.46	24.0	60.9	60.9
2025-11-13 08:47:28	2025-11-13 08:48:11	13	AGUA-01	19.0	27.0	12.41	1730.0	8.11	23.0	61.3	61.3
2025-11-13 09:48:25	2025-11-13 09:49:07	13	AGUA-01	19.38	32.0	12.45	1747.0	8.18	23.0	60.9	61.0
2025-11-13 10:49:23	2025-11-13 10:50:06	13	AGUA-01	21.12	36.0	12.46	1793.0	8.01	27.0	61.0	61.0

■ DATOS COMPLETOS - Página 14 (Filas 456-490)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
2025-11-13 11:50:21	2025-11-13 11:51:03	13	AGUA-01	22.19	38.25	12.46	1843.0	7.17	24.0	61.0	61.0
2025-11-13 12:51:09	2025-11-13 12:51:52	13	AGUA-01	22.38	39.0	12.47	1851.0	7.4	26.0	60.8	60.8
2025-11-13 13:51:51	2025-11-13 13:52:33	13	AGUA-01	22.19	36.75	12.47	1826.0	8.05	25.0	60.7	60.7
2025-11-13 14:52:36	2025-11-13 14:53:18	13	AGUA-01	22.12	38.0	12.47	1838.0	7.26	26.0	60.8	60.8
2025-11-13 15:53:25	2025-11-13 15:54:07	13	AGUA-01	22.31	38.75	12.47	1841.0	7.16	24.0	60.8	60.8
2025-11-13 16:54:13	2025-11-13 16:54:55	13	AGUA-01	22.25	39.75	12.47	1795.0	7.32	24.0	60.8	60.8
2025-11-13 17:55:01	2025-11-13 17:55:44	13	AGUA-01	22.12	39.75	12.47	1735.0	7.64	25.0	60.8	60.8
2025-11-13 18:55:47	2025-11-13 18:56:29	13	AGUA-01	21.62	39.0	12.48	1764.0	8.02	23.0	60.8	60.8
2025-11-13 19:56:31	2025-11-13 19:57:13	13	AGUA-01	21.12	35.75	12.47	1780.0	8.29	14.0	60.7	60.7
2025-11-13 20:56:58	2025-11-13 20:57:41	13	AGUA-01	20.94	30.75	12.46	1726.0	8.47	21.0	60.5	60.5
2025-11-13 21:57:38	2025-11-13 21:58:21	13	AGUA-01	20.25	30.0	12.45	1731.0	8.57	26.0	60.7	60.7
2025-11-13 22:58:22	2025-11-13 22:59:05	13	AGUA-01	20.06	27.75	12.44	1741.0	8.5	23.0	60.7	60.7
2025-11-13 23:58:54	2025-11-13 23:59:36	13	AGUA-01	19.94	25.0	12.42	1748.0	8.55	24.0	60.5	60.5
2025-11-14 00:59:32	2025-11-14 01:00:14	13	AGUA-01	19.81	22.75	12.41	1744.0	8.45	24.0	60.6	60.6
2025-11-14 02:00:11	2025-11-14 02:00:53	13	AGUA-01	19.75	21.0	12.39	1743.0	8.41	24.0	60.6	60.6
2025-11-14 03:00:54	2025-11-14 03:01:36	13	AGUA-01	19.75	20.0	12.39	1741.0	8.41	24.0	60.7	60.7

2025-11-14 04:01:34	2025-11-14 04:02:17	13	AGUA-01	19.62	18.75	12.38	1760.0	8.38	24.0	60.7	60.7
2025-11-14 05:02:19	2025-11-14 05:03:01	13	AGUA-01	19.38	18.25	12.37	1729.0	8.41	24.0	60.7	60.8
2025-11-14 06:03:03	2025-11-14 06:03:46	13	AGUA-01	19.25	17.5	12.37	1723.0	8.4	23.0	60.8	60.7
2025-11-14 07:03:47	2025-11-14 07:04:29	13	AGUA-01	19.12	17.0	12.38	1734.0	8.37	24.0	60.7	60.7
2025-11-14 08:04:44	2025-11-14 08:05:27	13	AGUA-01	19.06	23.25	12.39	1744.0	8.26	23.0	61.0	61.0
2025-11-14 09:05:59	2025-11-14 09:06:41	13	AGUA-01	19.44	27.75	12.42	1785.0	8.08	22.0	61.2	61.2
2025-11-14 10:07:03	2025-11-14 10:07:46	13	AGUA-01	20.62	34.75	12.45	1747.0	8.46	23.0	61.1	61.1
2025-11-14 11:08:02	2025-11-14 11:08:45	13	AGUA-01	21.75	37.75	12.46	1782.0	8.0	25.0	61.0	61.0
2025-11-14 12:08:50	2025-11-14 12:09:33	13	AGUA-01	21.25	36.75	12.46	1801.0	7.26	27.0	60.8	60.8
2025-11-14 13:09:28	2025-11-14 13:10:10	13	AGUA-01	21.88	35.25	12.46	1884.0	7.37	24.0	60.6	60.6
2025-11-14 14:10:13	2025-11-14 14:10:55	13	AGUA-01	22.12	35.25	12.47	1892.0	7.52	23.0	60.8	60.8
2025-11-14 15:10:58	2025-11-14 15:11:41	13	AGUA-01	22.69	35.0	12.47	1960.0	7.59	25.0	60.8	60.8
2025-11-14 16:11:44	2025-11-14 16:12:26	13	AGUA-01	22.81	35.0	12.47	1984.0	7.77	22.0	60.8	60.8
2025-11-14 17:12:30	2025-11-14 17:13:12	13	AGUA-01	22.38	35.25	12.48	1910.0	7.98	23.0	60.8	60.8
2025-11-14 18:13:15	2025-11-14 18:13:57	13	AGUA-01	22.19	34.25	12.47	1878.0	8.28	22.0	60.8	60.8
2025-11-14 19:13:55	2025-11-14 19:14:37	13	AGUA-01	22.0	32.25	12.47	1863.0	8.5	24.0	60.7	60.7
2025-11-14 20:14:33	2025-11-14 20:15:15	13	AGUA-01	21.31	28.5	12.46	1847.0	8.62	25.0	60.6	60.6
2025-11-14 21:15:09	2025-11-14 21:15:52	13	AGUA-01	21.19	27.25	12.43	1838.0	8.62	24.0	60.6	60.6
2025-11-14 22:15:48	2025-11-14 22:16:31	13	AGUA-01	20.94	24.75	12.43	1822.0	8.64	24.0	60.6	60.6

■ DATOS COMPLETOS - Página 15 (Filas 491-525)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
2025-11-14 23:16:27	2025-11-14 23:17:10	13	AGUA-01	20.81	23.0	12.41	1825.0	8.62	25.0	60.6	60.6
2025-11-15 00:17:07	2025-11-15 00:17:49	13	AGUA-01	20.69	21.5	12.39	1822.0	8.6	24.0	60.6	60.7
2025-11-15 01:17:48	2025-11-15 01:18:30	13	AGUA-01	20.62	20.0	12.39	1812.0	8.55	26.0	60.7	60.7
2025-11-15 02:18:29	2025-11-15 02:19:11	13	AGUA-01	20.44	18.75	12.39	1768.0	8.58	27.0	60.7	60.7
2025-11-15 03:19:11	2025-11-15 03:19:53	13	AGUA-01	20.31	18.25	12.38	1801.0	8.56	25.0	60.7	60.7
2025-11-15 04:19:54	2025-11-15 04:20:37	13	AGUA-01	20.19	17.75	12.38	1825.0	8.47	24.0	60.7	60.7
2025-11-15 05:20:39	2025-11-15 05:21:22	13	AGUA-01	20.06	17.0	12.36	1815.0	8.46	25.0	60.8	60.8
2025-11-15 06:21:23	2025-11-15 06:22:05	13	AGUA-01	19.94	16.5	12.36	1811.0	8.45	25.0	60.7	60.7
2025-11-15 07:22:10	2025-11-15 07:22:52	13	AGUA-01	19.94	17.75	12.37	1817.0	8.43	24.0	60.8	60.8
2025-11-15 08:23:05	2025-11-15 08:23:48	13	AGUA-01	19.81	19.75	12.39	1817.0	8.39	27.0	60.9	60.9
2025-11-15 09:23:57	2025-11-15 09:24:40	13	AGUA-01	19.81	21.25	12.4	1816.0	8.35	25.0	60.9	60.9
2025-11-15 10:24:51	2025-11-15 10:25:34	13	AGUA-01	19.88	23.25	12.41	1814.0	8.28	24.0	60.9	60.9
2025-11-15 11:25:52	2025-11-15 11:26:35	13	AGUA-01	20.75	28.25	12.44	1830.0	7.86	24.0	61.0	61.0
2025-11-15 12:26:50	2025-11-15 12:27:33	13	AGUA-01	21.25	30.5	12.44	1866.0	7.59	25.0	61.0	61.0
2025-11-15 13:27:40	2025-11-15 13:28:23	13	AGUA-01	21.69	32.0	12.45	1901.0	7.04	25.0	60.8	60.8
2025-11-15 14:28:38	2025-11-15 14:29:21	13	AGUA-01	22.56	34.5	12.46	1927.0	6.94	27.0	61.0	61.0

2025-11-15 15:29:27	2025-11-15 15:30:09	13	AGUA-01	22.56	33.5	12.47	1903.0	7.98	24.0	60.8	60.8
2025-11-15 16:30:10	2025-11-15 16:30:53	13	AGUA-01	22.56	33.0	12.47	1900.0	8.38	27.0	60.7	60.7
2025-11-15 17:31:00	2025-11-15 17:31:43	13	AGUA-01	22.69	34.25	12.47	1929.0	8.47	28.0	60.8	60.8
2025-11-15 18:31:46	2025-11-15 18:32:29	13	AGUA-01	22.44	33.75	12.46	1929.0	8.56	23.0	60.8	60.8
2025-11-15 19:32:25	2025-11-15 19:33:08	13	AGUA-01	22.38	31.5	12.46	1924.0	8.67	21.0	60.6	60.6
2025-11-15 20:33:00	2025-11-15 20:33:42	13	AGUA-01	21.56	26.25	12.44	1880.0	8.86	25.0	60.6	60.6
2025-11-15 21:33:32	2025-11-15 21:34:15	13	AGUA-01	21.31	24.0	12.41	1854.0	8.89	28.0	60.5	60.5
2025-11-15 22:34:18	2025-11-15 22:35:01	13	AGUA-01	21.0	23.75	12.4	1855.0	8.82	25.0	60.8	60.8
2025-11-15 23:35:04	2025-11-15 23:35:47	13	AGUA-01	20.75	23.5	12.39	1827.0	8.76	24.0	60.8	60.8
2025-11-16 00:35:44	2025-11-16 00:36:26	13	AGUA-01	20.69	22.0	12.39	1829.0	8.69	25.0	60.6	60.7
2025-11-16 01:36:28	2025-11-16 01:37:11	13	AGUA-01	20.56	21.75	12.39	1828.0	8.61	22.0	60.8	60.7
2025-11-16 02:37:14	2025-11-16 02:37:56	13	AGUA-01	20.62	21.25	12.39	1823.0	8.65	22.0	60.8	60.8
2025-11-16 03:37:57	2025-11-16 03:38:39	13	AGUA-01	20.5	21.0	12.39	1831.0	8.53	25.0	60.7	60.7
2025-11-16 04:38:45	2025-11-16 04:39:27	13	AGUA-01	20.31	21.5	12.36	1835.0	8.47	27.0	60.8	60.8
2025-11-16 05:39:33	2025-11-16 05:40:16	13	AGUA-01	20.25	21.75	12.38	1840.0	8.46	24.0	60.8	60.8
2025-11-16 06:40:18	2025-11-16 06:41:01	13	AGUA-01	20.19	21.0	12.37	1833.0	8.44	25.0	60.8	60.8
2025-11-16 07:41:04	2025-11-16 07:41:47	13	AGUA-01	20.06	21.25	12.39	1835.0	8.43	25.0	60.8	60.8
2025-11-16 08:42:02	2025-11-16 08:42:44	13	AGUA-01	20.19	25.75	12.39	1806.0	8.37	23.0	61.0	61.0
2025-11-16 09:42:56	2025-11-16 09:43:39	13	AGUA-01	20.5	29.75	12.42	1810.0	8.6	24.0	60.9	60.9

■ DATOS COMPLETOS - Página 16 (Filas 526-560)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
2025-11-16 10:43:58	2025-11-16 10:44:40	13	AGUA-01	21.5	34.25	12.44	1829.0	8.68	28.0	61.0	61.0
2025-11-16 11:44:56	2025-11-16 11:45:39	13	AGUA-01	23.06	36.25	12.46	1877.0	7.99	24.0	61.0	61.0
2025-11-16 12:45:42	2025-11-16 12:46:24	13	AGUA-01	23.06	36.5	12.46	1894.0	7.51	23.0	60.8	60.8
2025-11-16 13:46:24	2025-11-16 13:47:06	13	AGUA-01	23.44	34.25	12.46	1920.0	8.26	26.0	60.7	60.7
2025-11-16 14:47:07	2025-11-16 14:47:50	13	AGUA-01	22.25	34.75	12.47	1865.0	8.01	23.0	60.7	60.7
2025-11-16 15:47:55	2025-11-16 15:48:38	13	AGUA-01	22.25	35.0	12.47	1897.0	7.9	22.0	60.8	60.8
2025-11-16 16:48:44	2025-11-16 16:49:27	13	AGUA-01	22.5	35.75	12.47	1893.0	8.14	23.0	60.8	60.8
2025-11-16 17:49:33	2025-11-16 17:50:16	13	AGUA-01	22.56	37.25	12.47	1882.0	8.23	23.0	60.8	60.8
2025-11-16 18:50:22	2025-11-16 18:51:04	13	AGUA-01	22.56	36.5	12.47	1871.0	8.69	20.0	60.8	60.8
2025-11-16 19:51:02	2025-11-16 19:51:45	13	AGUA-01	22.56	34.0	12.47	1843.0	8.77	22.0	60.7	60.7
2025-11-16 20:51:31	2025-11-16 20:52:13	13	AGUA-01	21.81	28.75	12.45	1833.0	8.86	22.0	60.5	60.5
2025-11-16 21:52:11	2025-11-16 21:52:53	13	AGUA-01	21.69	27.5	12.42	1833.0	8.74	22.0	60.7	60.7
2025-11-16 22:52:52	2025-11-16 22:53:35	13	AGUA-01	21.5	25.75	12.42	1830.0	8.76	26.0	60.7	60.7
2025-11-16 23:53:33	2025-11-16 23:54:16	13	AGUA-01	21.38	25.0	12.41	1834.0	8.68	26.0	60.7	60.7
2025-11-17 00:54:24	2025-11-17 00:55:07	13	AGUA-01	21.19	26.5	12.41	1832.0	8.59	22.0	60.9	60.9
2025-11-17 01:55:02	2025-11-17 01:55:45	13	AGUA-01	21.06	24.25	12.4	1834.0	8.55	23.0	60.6	60.6

2025-11-17 02:55:41	2025-11-17 02:56:23	13	AGUA-01	20.94	21.75	12.39	1828.0	8.54	22.0	60.6	60.6
2025-11-17 03:56:22	2025-11-17 03:57:05	13	AGUA-01	20.81	20.5	12.39	1819.0	8.59	23.0	60.7	60.7
2025-11-17 04:57:02	2025-11-17 04:57:45	13	AGUA-01	20.69	19.25	12.38	1831.0	8.56	23.0	60.7	60.7
2025-11-17 05:57:45	2025-11-17 05:58:28	13	AGUA-01	20.62	18.5	12.37	1838.0	8.51	25.0	60.7	60.7
2025-11-17 06:58:28	2025-11-17 06:59:11	13	AGUA-01	20.56	18.75	12.36	1848.0	8.47	23.0	60.7	60.7
2025-11-17 07:59:23	2025-11-17 08:00:06	13	AGUA-01	20.44	23.5	12.39	1857.0	8.32	26.0	60.9	60.9
2025-11-17 09:00:36	2025-11-17 09:01:18	13	AGUA-01	20.69	28.0	12.42	1851.0	7.98	25.0	61.2	61.2
2025-11-17 10:01:38	2025-11-17 10:02:20	13	AGUA-01	21.69	34.5	12.45	1830.0	8.54	25.0	61.0	61.0
2025-11-17 11:02:35	2025-11-17 11:03:18	13	AGUA-01	22.5	37.0	12.45	1880.0	8.12	23.0	61.0	61.0
2025-11-17 12:03:26	2025-11-17 12:04:09	13	AGUA-01	23.44	39.0	12.45	1919.0	7.31	23.0	60.9	60.9
2025-11-17 13:04:18	2025-11-17 13:05:01	13	AGUA-01	24.12	40.75	12.47	1966.0	6.57	23.0	60.9	60.9
2025-11-17 14:05:43	2025-11-17 14:06:26	13	AGUA-01	25.0	43.0	12.48	2001.0	6.58	25.0	61.4	61.4
2025-11-17 15:07:03	2025-11-17 15:07:45	13	AGUA-01	23.62	41.25	12.47	1931.0	6.82	25.0	61.3	61.3
2025-11-17 16:09:13	2025-11-17 16:09:55	13	AGUA-01	23.12	42.0	12.48	1916.0	6.8	28.0	62.2	62.2
2025-11-17 17:11:23	2025-11-17 17:12:05	13	AGUA-01	23.06	41.5	12.47	1930.0	7.58	26.0	62.2	62.2
2025-11-17 18:13:54	2025-11-17 18:14:37	13	AGUA-01	0.0	41.25	12.47	0.0	0.0	23.0	62.5	62.5
2025-11-17 19:16:25	2025-11-17 19:17:08	13	AGUA-01	0.0	39.75	12.49	0.0	0.0	24.0	62.5	62.5
2025-11-17 20:18:57	2025-11-17 20:19:40	13	AGUA-01	0.0	36.75	12.47	0.0	0.0	23.0	62.5	62.5
2025-11-17 21:21:08	2025-11-17 21:21:51	13	AGUA-01	0.0	32.25	12.44	0.0	0.0	22.0	62.2	62.2

■ DATOS COMPLETOS - Página 17 (Filas 561-595)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
2025-11-17 22:23:37	2025-11-17 22:24:19	13	AGUA-01	0.0	30.0	12.41	0.0	0.0	25.0	62.5	62.5
2025-11-17 23:26:09	2025-11-17 23:26:51	13	AGUA-01	0.0	29.75	12.41	0.0	0.0	22.0	62.5	62.5
2025-11-18 00:28:44	2025-11-18 00:29:26	13	AGUA-01	0.0	29.25	12.42	0.0	0.0	22.0	62.6	62.6
2025-11-18 01:31:10	2025-11-18 01:31:53	13	AGUA-01	0.0	28.75	12.39	0.0	0.0	22.0	62.5	62.4
2025-11-18 02:33:43	2025-11-18 02:34:26	13	AGUA-01	0.0	27.5	12.39	0.0	0.0	23.0	62.5	62.5
2025-11-18 03:36:15	2025-11-18 03:36:58	13	AGUA-01	0.0	26.5	12.39	0.0	0.0	23.0	62.5	62.5
2025-11-18 04:38:44	2025-11-18 04:39:27	13	AGUA-01	0.0	24.75	12.39	0.0	0.0	21.0	62.5	62.5
2025-11-18 05:41:10	2025-11-18 05:41:53	13	AGUA-01	0.0	23.75	12.38	0.0	0.0	23.0	62.4	62.4
2025-11-18 06:43:42	2025-11-18 06:44:25	13	AGUA-01	0.0	22.5	12.38	0.0	0.0	23.0	62.5	62.5
2025-11-18 07:46:14	2025-11-18 07:46:57	13	AGUA-01	0.0	24.75	12.39	0.0	0.0	23.0	62.5	62.5
2025-11-18 09:51:55	2025-11-18 09:52:38	13	AGUA-01	0.0	34.25	12.43	0.0	0.0	23.0	125.7	125.7
2025-11-18 10:54:50	2025-11-18 10:55:33	13	AGUA-01	0.0	37.5	12.45	0.0	0.0	25.0	62.9	62.9
2025-11-18 11:57:31	2025-11-18 11:58:14	13	AGUA-01	0.0	39.75	12.46	0.0	0.0	22.0	62.7	62.7
2025-11-18 13:00:08	2025-11-18 13:00:51	13	AGUA-01	0.0	39.5	12.46	0.0	0.0	22.0	62.6	62.6
2025-11-18 14:01:55	2025-11-18 14:02:38	13	AGUA-01	23.25	38.25	12.46	2061.0	7.71	25.0	61.8	61.8
2025-11-18 15:04:32	2025-11-18 15:05:15	13	AGUA-01	0.0	39.0	12.46	0.0	0.0	26.0	62.6	62.6

2025-11-18 16:07:07	2025-11-18 16:07:50	13	AGUA-01	0.0	39.75	12.47	0.0	0.0	23.0	62.6	62.6
2025-11-18 17:09:45	2025-11-18 17:10:28	13	AGUA-01	0.0	40.75	12.47	0.0	0.0	26.0	62.6	62.6
2025-11-18 18:12:23	2025-11-18 18:13:06	13	AGUA-01	0.0	40.75	12.47	0.0	0.0	26.0	62.6	62.6
2025-11-18 19:14:55	2025-11-18 19:15:38	13	AGUA-01	0.0	39.75	12.47	0.0	0.0	22.0	62.5	62.5
2025-11-18 20:17:23	2025-11-18 20:18:06	13	AGUA-01	0.0	35.25	12.45	0.0	0.0	24.0	62.5	62.5
2025-11-18 21:19:36	2025-11-18 21:20:19	13	AGUA-01	0.0	31.75	12.44	0.0	0.0	25.0	62.2	62.2
2025-11-18 22:22:07	2025-11-18 22:22:50	13	AGUA-01	0.0	30.75	12.42	0.0	0.0	24.0	62.5	62.5
2025-11-18 23:24:36	2025-11-18 23:25:19	13	AGUA-01	0.0	29.5	12.4	0.0	0.0	24.0	62.5	62.5
2025-11-19 00:27:05	2025-11-19 00:27:48	13	AGUA-01	0.0	27.75	12.4	0.0	0.0	23.0	62.5	62.5
2025-11-19 01:29:35	2025-11-19 01:30:18	13	AGUA-01	0.0	26.5	12.39	0.0	0.0	23.0	62.5	62.5
2025-11-19 02:32:02	2025-11-19 02:32:45	13	AGUA-01	0.0	25.25	12.39	0.0	0.0	22.0	62.5	62.5
2025-11-19 03:34:32	2025-11-19 03:35:15	13	AGUA-01	0.0	23.25	12.39	0.0	0.0	24.0	62.5	62.5
2025-11-19 04:36:59	2025-11-19 04:37:43	13	AGUA-01	0.0	21.25	12.37	0.0	0.0	21.0	62.5	62.5
2025-11-19 05:39:26	2025-11-19 05:40:09	13	AGUA-01	0.0	20.0	12.36	0.0	0.0	23.0	62.4	62.5
2025-11-19 06:41:56	2025-11-19 06:42:39	13	AGUA-01	0.0	19.0	12.35	0.0	0.0	26.0	62.5	62.5
2025-11-19 07:44:34	2025-11-19 07:45:17	13	AGUA-01	0.0	22.0	12.38	0.0	0.0	24.0	62.6	62.6
2025-11-19 08:47:34	2025-11-19 08:48:17	13	AGUA-01	0.0	28.25	12.39	0.0	0.0	25.0	63.0	63.0
2025-11-19 09:50:17	2025-11-19 09:51:00	13	AGUA-01	0.0	34.25	12.42	0.0	0.0	24.0	62.7	62.7
2025-11-19 10:53:08	2025-11-19 10:53:51	13	AGUA-01	0.0	38.25	12.44	0.0	0.0	21.0	62.9	62.9

■ DATOS COMPLETOS - Página 18 (Filas 596-630)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
2025-11-19 11:55:41	2025-11-19 11:56:25	13	AGUA-01	23.12	39.5	12.45	1987.0	7.76	26.0	62.6	62.5
2025-11-19 12:57:45	2025-11-19 13:14:35	13	AGUA-01	23.38	38.0	12.45	2063.0	7.81	23.0	78.2	62.1
2025-11-19 14:00:21	2025-11-19 14:36:32	13	AGUA-01	0.0	37.5	12.46	0.0	0.0	25.0	82.0	62.6
2025-11-19 15:02:27	2025-11-19 15:57:35	13	AGUA-01	23.38	36.75	12.46	2048.0	8.66	24.0	81.0	62.1
2025-11-19 16:05:06	2025-11-19 17:14:03	13	AGUA-01	0.0	36.25	12.46	0.0	0.0	25.0	76.5	62.6
2025-11-19 17:07:50	2025-11-19 17:17:16	13	AGUA-01	0.0	37.25	12.46	0.0	0.0	22.0	3.2	62.7
2025-11-19 18:10:35	2025-11-19 18:11:18	13	AGUA-01	0.0	37.25	12.46	0.0	0.0	25.0	54.0	62.8
2025-11-19 19:13:07	2025-11-19 19:13:50	13	AGUA-01	0.0	35.25	12.47	0.0	0.0	21.0	62.5	62.5
2025-11-19 20:15:28	2025-11-19 20:16:11	13	AGUA-01	0.0	30.0	12.43	0.0	0.0	24.0	62.4	62.4
2025-11-19 21:17:45	2025-11-19 21:18:27	13	AGUA-01	0.0	27.5	12.42	0.0	0.0	23.0	62.3	62.3
2025-11-19 22:20:19	2025-11-19 22:21:02	13	AGUA-01	0.0	27.5	12.41	0.0	0.0	23.0	62.6	62.6
2025-11-19 23:22:44	2025-11-19 23:23:26	13	AGUA-01	0.0	25.25	12.39	0.0	0.0	26.0	62.4	62.4
2025-11-20 00:25:12	2025-11-20 00:25:55	13	AGUA-01	0.0	23.75	12.39	0.0	0.0	24.0	62.5	62.5
2025-11-20 01:27:43	2025-11-20 01:28:26	13	AGUA-01	0.0	22.5	12.37	0.0	0.0	22.0	62.5	62.5
2025-11-20 02:30:15	2025-11-20 02:30:57	13	AGUA-01	0.0	21.75	12.36	0.0	0.0	23.0	62.5	62.5
2025-11-20 03:32:43	2025-11-20 03:33:26	13	AGUA-01	0.0	21.25	12.36	0.0	0.0	25.0	62.5	62.5

2025-11-20 04:35:18	2025-11-20 04:36:01	13	AGUA-01	0.0	20.75	12.36	0.0	0.0	22.0	62.6	62.6
2025-11-20 05:37:48	2025-11-20 05:38:31	13	AGUA-01	0.0	20.25	12.33	0.0	0.0	24.0	62.5	62.5
2025-11-20 07:43:12	2025-11-20 07:43:54	13	AGUA-01	0.0	22.0	12.39	0.0	0.0	27.0	125.4	125.4
2025-11-20 08:45:53	2025-11-20 08:46:36	13	AGUA-01	0.0	25.0	12.39	0.0	0.0	23.0	62.7	62.7
2025-11-20 09:48:41	2025-11-20 09:49:26	13	AGUA-01	0.0	28.5	12.41	0.0	0.0	23.0	62.8	62.8
2025-11-20 10:51:20	2025-11-20 10:52:02	13	AGUA-01	0.0	29.0	12.41	0.0	0.0	22.0	62.6	62.6
2025-11-20 11:53:56	2025-11-20 11:54:39	13	AGUA-01	0.0	31.25	12.42	0.0	0.0	25.0	62.6	62.6
2025-11-20 12:56:36	2025-11-20 12:57:19	13	AGUA-01	0.0	31.75	12.44	0.0	0.0	26.0	62.7	62.7
2025-11-20 13:59:09	2025-11-20 13:59:51	13	AGUA-01	0.0	30.0	12.41	0.0	0.0	26.0	62.5	62.5
2025-11-20 15:01:38	2025-11-20 15:02:21	13	AGUA-01	0.0	29.5	12.42	0.0	0.0	24.0	62.5	62.5
2025-11-20 16:04:08	2025-11-20 16:04:51	13	AGUA-01	0.0	28.5	12.41	0.0	0.0	24.0	62.5	62.5
2025-11-20 17:06:47	2025-11-20 17:07:29	13	AGUA-01	0.0	29.5	12.42	0.0	0.0	24.0	62.6	62.6
2025-11-20 18:09:18	2025-11-20 18:10:09	13	AGUA-01	0.0	30.5	12.42	0.0	0.0	26.0	62.7	62.5
2025-11-20 19:12:07	2025-11-20 19:12:50	13	AGUA-01	0.0	33.5	12.46	0.0	0.0	24.0	62.7	62.8
2025-11-20 20:14:53	2025-11-20 20:16:17	13	AGUA-01	0.0	31.75	12.44	0.0	0.0	18.0	63.5	62.8
2025-11-20 21:17:37	2025-11-20 21:18:26	13	AGUA-01	0.0	26.25	12.41	0.0	0.0	18.0	62.1	62.7
2025-11-20 22:20:08	2025-11-20 22:20:58	13	AGUA-01	0.0	23.75	12.39	0.0	0.0	18.0	62.5	62.5
2025-11-20 23:22:43	2025-11-20 23:23:34	13	AGUA-01	0.0	22.0	12.39	0.0	0.0	17.0	62.6	62.6
2025-11-21 00:25:19	2025-11-21 00:26:09	13	AGUA-01	0.0	20.5	12.37	0.0	0.0	18.0	62.6	62.6

■ DATOS COMPLETOS - Página 19 (Filas 631-665)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
2025-11-21 01:27:57	2025-11-21 01:28:47	13	AGUA-01	0.0	20.0	12.37	0.0	0.0	17.0	62.6	62.6
2025-11-21 02:30:34	2025-11-21 02:31:26	13	AGUA-01	0.0	18.75	12.35	0.0	0.0	17.0	62.6	62.6
2025-11-21 03:33:16	2025-11-21 03:34:08	13	AGUA-01	0.0	18.25	12.36	0.0	0.0	17.0	62.7	62.7
2025-11-21 04:35:59	2025-11-21 04:36:51	13	AGUA-01	0.0	17.75	12.33	0.0	0.0	17.0	62.7	62.7
2025-11-21 05:38:41	2025-11-21 05:39:34	13	AGUA-01	0.0	17.0	12.34	0.0	0.0	17.0	62.7	62.7
2025-11-21 06:41:23	2025-11-21 06:42:17	13	AGUA-01	0.0	16.25	12.32	0.0	0.0	17.0	62.7	62.7
2025-11-21 07:44:10	2025-11-21 07:45:08	13	AGUA-01	0.0	18.75	12.36	0.0	0.0	17.0	62.9	62.8
2025-11-21 08:47:23	2025-11-21 08:48:15	13	AGUA-01	0.0	25.0	12.39	0.0	0.0	17.0	63.1	63.2
2025-11-21 09:50:18	2025-11-21 09:51:07	13	AGUA-01	0.0	31.5	12.41	0.0	0.0	17.0	62.9	62.9
2025-11-21 10:53:21	2025-11-21 10:54:11	13	AGUA-01	0.0	37.25	12.42	0.0	0.0	17.0	63.1	63.0
2025-11-21 11:56:18	2025-11-21 11:57:11	13	AGUA-01	0.0	40.25	12.44	0.0	0.0	16.0	63.0	63.0
2025-11-21 12:59:08	2025-11-21 12:59:57	13	AGUA-01	0.0	39.75	12.45	0.0	0.0	18.0	62.8	62.8
2025-11-21 14:01:42	2025-11-21 14:02:32	13	AGUA-01	0.0	38.75	12.44	0.0	0.0	18.0	62.6	62.6
2025-11-21 15:03:52	2025-11-21 15:07:34	13	AGUA-01	24.56	39.0	12.46	2086.0	8.12	17.0	65.0	62.2
2025-11-21 16:06:18	2025-11-21 16:13:15	13	AGUA-01	24.56	39.5	12.46	2091.0	8.12	18.0	65.7	62.4
2025-11-21 17:09:08	2025-11-21 18:47:35	13	AGUA-01	0.0	40.0	12.46	0.0	0.0	25.0	154.3	62.8

2025-11-21 18:12:51	2025-11-21 18:49:05	13	AGUA-01	0.0	40.0	12.46	0.0	0.0	25.0	1.5	63.7
2025-11-21 19:15:45	2025-11-21 20:06:35	13	AGUA-01	0.0	38.5	12.47	0.0	0.0	26.0	77.5	62.9
2025-11-21 20:18:19	2025-11-21 21:25:38	13	AGUA-01	0.0	33.0	12.44	0.0	0.0	26.0	79.0	62.6
2025-11-21 21:20:06	2025-11-21 22:43:13	13	AGUA-01	24.62	30.5	12.41	1989.0	8.53	24.0	77.6	61.8
2025-11-21 22:22:45	2025-11-22 00:01:20	13	AGUA-01	22.38	28.25	12.4	1976.0	8.47	25.0	78.1	62.6
2025-11-21 23:25:15	2025-11-22 01:20:14	13	AGUA-01	0.0	26.0	12.39	0.0	0.0	24.0	78.9	62.5
2025-11-22 00:27:49	2025-11-22 02:38:58	13	AGUA-01	0.0	23.25	12.39	0.0	0.0	24.0	78.7	62.6
2025-11-22 01:30:26	2025-11-22 03:52:33	13	AGUA-01	0.0	21.5	12.37	0.0	0.0	24.0	73.6	62.6
2025-11-22 06:43:46	2025-11-22 09:13:54	13	AGUA-01	0.0	18.0	12.32	0.0	0.0	23.0	321.4	313.3
2025-11-22 07:46:30	2025-11-22 10:19:26	13	AGUA-01	0.0	20.75	12.37	0.0	0.0	22.0	65.5	62.7
2025-11-22 10:54:30	2025-11-22 13:26:13	13	AGUA-01	21.5	39.25	12.44	1982.0	8.27	23.0	186.8	188.0
2025-11-22 14:01:19	2025-11-22 16:31:08	13	AGUA-01	22.69	38.0	12.44	2002.0	8.17	23.0	184.9	186.8
2025-11-22 16:06:46	2025-11-22 18:37:48	13	AGUA-01	0.0	38.75	12.47	0.0	0.0	23.0	126.7	125.5
2025-11-22 17:09:29	2025-11-22 19:40:11	13	AGUA-01	0.0	39.25	12.46	0.0	0.0	22.0	62.4	62.7
2025-11-22 18:12:13	2025-11-22 20:41:51	13	AGUA-01	0.0	38.75	12.47	0.0	0.0	27.0	61.7	62.7
2025-11-22 19:14:53	2025-11-22 21:43:33	13	AGUA-01	0.0	37.0	12.46	0.0	0.0	24.0	61.7	62.7
2025-11-22 21:18:22	2025-11-22 23:45:12	13	AGUA-01	23.12	31.5	12.42	2008.0	8.46	28.0	121.7	123.5
2025-11-23 00:23:16	2025-11-23 02:56:25	13	AGUA-01	0.0	23.25	12.41	0.0	0.0	30.0	191.2	184.9
2025-11-23 01:25:31	2025-11-23 03:56:22	13	AGUA-01	22.31	21.5	12.39	1963.0	8.48	25.0	60.0	62.2

■ DATOS COMPLETOS - Página 20 (Filas 666-700)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
2025-11-23 02:28:11	2025-11-23 04:59:08	13	AGUA-01	0.0	20.25	12.37	0.0	0.0	23.0	62.8	62.7
2025-11-23 03:30:48	2025-11-23 06:06:45	13	AGUA-01	0.0	19.25	12.36	0.0	0.0	24.0	67.6	62.6
2025-11-23 04:33:26	2025-11-23 07:09:27	13	AGUA-01	0.0	18.5	12.35	0.0	0.0	23.0	62.7	62.6
2025-11-23 05:36:10	2025-11-23 08:07:56	13	AGUA-01	0.0	18.25	12.36	0.0	0.0	23.0	58.5	62.7
2025-11-23 06:38:51	2025-11-23 09:08:37	13	AGUA-01	0.0	17.5	12.33	0.0	0.0	23.0	60.7	62.7
2025-11-23 07:41:35	2025-11-23 10:10:44	13	AGUA-01	0.0	20.0	12.35	0.0	0.0	23.0	62.1	62.7
2025-11-23 08:44:35	2025-11-23 11:13:57	13	AGUA-01	0.0	25.25	12.4	0.0	0.0	23.0	63.2	63.0
2025-11-23 12:55:51	2025-11-23 13:05:55	13	AGUA-01	0.0	37.25	12.46	0.0	0.0	25.0	112.0	251.3
2025-11-23 13:58:23	2025-11-23 14:24:53	13	AGUA-01	22.44	37.5	12.46	2001.0	7.93	25.0	79.0	62.5
2025-11-23 15:00:58	2025-11-23 15:43:39	13	AGUA-01	0.0	35.75	12.45	0.0	0.0	24.0	78.8	62.6
2025-11-23 16:03:40	2025-11-23 17:02:51	13	AGUA-01	0.0	35.75	12.46	0.0	0.0	24.0	79.2	62.7
2025-11-23 17:06:24	2025-11-23 18:22:02	13	AGUA-01	0.0	35.75	12.44	0.0	0.0	25.0	79.2	62.7
2025-11-23 18:09:06	2025-11-23 19:40:45	13	AGUA-01	0.0	36.5	12.46	0.0	0.0	25.0	78.7	62.7
2025-11-23 19:11:49	2025-11-23 20:59:10	13	AGUA-01	0.0	35.25	12.46	0.0	0.0	25.0	78.4	62.7
2025-11-23 20:14:19	2025-11-23 22:18:14	13	AGUA-01	22.94	30.5	12.44	2053.0	8.55	25.0	79.1	62.5
2025-11-23 21:16:42	2025-11-23 23:35:11	13	AGUA-01	0.0	27.0	12.42	0.0	0.0	26.0	77.0	62.4

2025-11-23 23:21:39	2025-11-24 01:45:40	13	AGUA-01	0.0	23.5	12.39	0.0	0.0	25.0	130.5	125.0
2025-11-24 02:29:18	2025-11-24 05:01:09	13	AGUA-01	0.0	20.5	12.37	0.0	0.0	24.0	195.5	187.7
2025-11-24 05:37:19	2025-11-24 08:07:03	13	AGUA-01	0.0	18.75	12.33	0.0	0.0	23.0	185.9	188.0
2025-11-24 06:40:06	2025-11-24 09:09:48	13	AGUA-01	0.0	19.5	12.34	0.0	0.0	28.0	62.8	62.8
2025-11-24 07:42:51	2025-11-24 10:14:34	13	AGUA-01	0.0	20.25	12.34	0.0	0.0	24.0	64.8	62.8
2025-11-24 09:48:35	2025-11-24 12:18:18	13	AGUA-01	0.0	27.5	12.39	0.0	0.0	24.0	123.7	125.7
2025-11-24 10:51:40	2025-11-24 12:31:34	13	AGUA-01	0.0	32.75	12.41	0.0	0.0	24.0	13.3	63.1
2025-11-24 11:54:33	2025-11-24 12:31:34	13	AGUA-01	22.31	35.0	12.42	1987.0	8.08	27.0	0.0	62.9
2025-11-24 12:57:12	2025-11-24 12:57:55	13	AGUA-01	0.0	35.25	12.44	0.0	0.0	25.0	26.4	62.6
2025-11-24 13:59:20	2025-11-24 14:00:04	13	AGUA-01	23.31	37.75	12.42	2026.0	7.75	30.0	62.1	62.1
2025-11-24 15:01:31	2025-11-24 15:02:15	13	AGUA-01	24.31	35.0	12.44	2053.0	8.34	25.0	62.2	62.2
2025-11-24 16:04:03	2025-11-24 16:04:47	13	AGUA-01	0.0	35.0	12.46	0.0	0.0	24.0	62.5	62.5
2025-11-24 17:06:40	2025-11-24 17:07:24	13	AGUA-01	0.0	35.5	12.44	0.0	0.0	24.0	62.6	62.6
2025-11-24 18:09:10	2025-11-24 18:09:53	13	AGUA-01	24.25	35.25	12.44	2011.0	8.4	30.0	62.5	62.5
2025-11-24 19:11:30	2025-11-24 19:12:14	13	AGUA-01	24.12	33.75	12.44	2001.0	8.47	22.0	62.4	62.3
2025-11-24 20:13:55	2025-11-24 20:14:39	13	AGUA-01	0.0	29.0	12.43	0.0	0.0	24.0	62.4	62.4
2025-11-24 21:16:14	2025-11-24 21:16:58	13	AGUA-01	0.0	27.0	12.41	0.0	0.0	24.0	62.3	62.3
2025-11-24 22:18:43	2025-11-24 22:19:29	13	AGUA-01	0.0	25.25	12.39	0.0	0.0	24.0	62.5	62.5
2025-11-24 23:21:15	2025-11-24 23:21:59	13	AGUA-01	0.0	23.5	12.39	0.0	0.0	22.0	62.5	62.5

■ DATOS COMPLETOS - Página 21 (Filas 701-717)

fecha	fecha_insercio n	id_proyecto	codigo_interno	DS18B20 [Grados celcius (°C)]	DS3231 [Grados celcius (°C)]	Divisor de Voltaje [Voltaje (V)]	ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	ENV-20-pH [pH a mbiental (pH)]	SIM7600G [Intensidad señal telefónica (Adimensional)]	Min. Dif. Insercion	Min. Dif. Medi cion
2025-11-25 00:23:45	2025-11-25 00:24:29	13	AGUA-01	0.0	22.25	12.38	0.0	0.0	22.0	62.5	62.5
2025-11-25 01:26:16	2025-11-25 01:26:59	13	AGUA-01	0.0	21.25	12.39	0.0	0.0	24.0	62.5	62.5
2025-11-25 02:28:47	2025-11-25 02:29:30	13	AGUA-01	0.0	20.75	12.36	0.0	0.0	24.0	62.5	62.5
2025-11-25 03:31:23	2025-11-25 03:32:07	13	AGUA-01	0.0	20.75	12.36	0.0	0.0	23.0	62.6	62.6
2025-11-25 04:34:02	2025-11-25 04:34:45	13	AGUA-01	0.0	21.75	12.35	0.0	0.0	23.0	62.6	62.6
2025-11-25 05:36:39	2025-11-25 05:37:23	13	AGUA-01	0.0	22.0	12.35	0.0	0.0	23.0	62.6	62.6
2025-11-25 06:39:14	2025-11-25 06:39:58	13	AGUA-01	0.0	22.0	12.35	0.0	0.0	25.0	62.6	62.6
2025-11-25 07:41:50	2025-11-25 07:42:34	13	AGUA-01	0.0	22.25	12.36	0.0	0.0	23.0	62.6	62.6
2025-11-25 08:44:27	2025-11-25 08:45:11	13	AGUA-01	0.0	23.25	12.39	0.0	0.0	25.0	62.6	62.6
2025-11-25 09:47:08	2025-11-25 09:47:51	13	AGUA-01	0.0	25.0	12.39	0.0	0.0	22.0	62.7	62.7
2025-11-25 10:49:53	2025-11-25 10:50:36	13	AGUA-01	0.0	29.25	12.4	0.0	0.0	27.0	62.8	62.8
2025-11-25 11:52:44	2025-11-25 11:53:28	13	AGUA-01	0.0	31.75	12.42	0.0	0.0	25.0	62.9	62.9
2025-11-25 12:55:11	2025-11-25 12:55:55	13	AGUA-01	0.0	29.5	12.41	0.0	0.0	23.0	62.5	62.5
2025-11-25 13:57:43	2025-11-25 14:07:37	13	AGUA-01	0.0	29.75	12.42	0.0	0.0	25.0	71.7	62.5
2025-11-25 15:00:31	2025-11-25 15:01:14	13	AGUA-01	0.0	31.0	12.44	0.0	0.0	25.0	53.6	62.8
2025-11-25 16:03:06	2025-11-25 16:03:50	13	AGUA-01	0.0	31.25	12.43	0.0	0.0	26.0	62.6	62.6

2025-11-25 17:05:45	2025-11-25 17:06:29	13	AGUA-01	0.0	32.25	12.44	0.0	0.0	30.0	62.6	62.6
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DIAGNOSTICO DEL RENDIMIENTO DEL SISTEMA

RESUMEN GENERAL:

- Total de días con datos: **35**
- Total de mediciones: **717**
- Promedio de mediciones por día: **20.5**
- Rango de mediciones diarias: **1 - 192**

Metrica	Intervalos Medicion (min)	Intervalos Insercion (min)
Media	34300.64	63.73
Mediana	60.72	60.80
Desv. Estándar	477130.13	17.92
Mínimo	0.00	0.00
Máximo	10075174.62	321.35
Q1 (25%)	1.72	60.72
Q3 (75%)	61.51	61.19
Total Intervalos	716	716