

# ■ REPORTE DE DATOS - AGUA-01

Proyecto 13 | Generado el 15/11/2025 19:20:29

## ■ Descripción del Dataset:

- Fecha inserción inicial: 2025-11-10 00:46:40
- Fecha inserción final: 2025-11-15 17:31:43
- Código interno: AGUA-01

■ 2 archivos procesados | ■ 134 registros totales | ■ Carpetas de fechas: 1

■ Archivo	■ Fecha Carpeta	■ Registros
AGUA-01_paquete_001_20251114.csv	2025-11-10	100
AGUA-01_paquete_002_20251115.csv	2025-11-10	34

## ■ MÉTRICAS DE CALIDAD DE DATOS

Variable	Compleitud %	Consistencia %	Estabilidad %	Continuidad %	Quality Score	Clasificación	N Outliers	Coef. Variación
DS18B20 [Grados celcius (°C)]	100.0%	100.0%	100.0%	98.5%	99.8%	■ EXCELENTE	0	6.61%
DS3231 [Grados celcius (°C)]	100.0%	100.0%	80.0%	98.5%	94.8%	■ EXCELENTE	0	28.96%
Divisor de Voltaje [Voltaje (V)]	100.0%	100.0%	100.0%	98.5%	99.8%	■ EXCELENTE	0	0.33%
ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	100.0%	99.3%	100.0%	98.5%	99.6%	■ EXCELENTE	1	3.69%

ENV-20-pH [pH ambiental (pH)]	100.0%	88.8%	100.0%	98.5%	96.4%	■ EXCELENTE	15	6.63%
SIM7600G [Intensidad señal telefónica (Adimensional)]	100.0%	82.8%	100.0%	98.5%	94.6%	■ EXCELENTE	23	7.23%

#### ■ Métricas de Calidad:

- **Compleitud:** % 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 (≥90%) | ■ Buena (≥80%) | ■ Aceptable (≥70%) | ■ Deficiente (<70%)

## ■ ESTADÍSTICAS DESCRIPTIVAS

Variable	Media	Mediana	Moda	Desv. Est.	Varianza	Mín	Máx	Q1	Q3	N válidos
DS18B20 [Grados celcius (°C)]	20.2198	19.9400	19.8100	1.3356	1.7839	17.7500	22.8100	19.0750	21.2350	134
DS3231 [Grados celcius (°C)]	26.6026	27.0000	20.0000	7.7041	59.3536	13.2500	39.7500	19.3125	33.3750	134
Divisor de Voltaje [Voltaje (V)]	12.4217	12.4200	12.4700	0.0409	0.0017	12.3300	12.4800	12.3900	12.4600	134
ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	1774.8433	1758.5000	1817.0000	65.4803	4287.6670	1664.0000	1984.0000	1720.2500	1817.0000	134
ENV-20-pH [pH ambiental (pH)]	8.1057	8.3200	8.4100	0.5371	0.2885	6.0500	8.7000	7.9800	8.4500	134
SIM7600G [Intensidad señal telefónica (Adimensional)]	24.5000	25.0000	24.0000	1.7717	3.1391	14.0000	28.0000	24.0000	25.0000	134

■ 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 (°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. Inserción	■ Min. Dif. Medicion
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	Primera	Primera
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
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

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

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. Inserción	■ Min. Dif. Medicion
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
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

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

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. Inserción	■ Min. Dif. Medicion
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
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

## ■ DATOS COMPLETOS - Página 4 (Filas 106-134)

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. Inserción	■ Min. Dif. Medicion
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
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	<b>60.8</b>	<b>60.8</b>
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	<b>60.7</b>	<b>60.7</b>
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	<b>60.8</b>	<b>60.8</b>
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	<b>60.9</b>	<b>60.9</b>
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	<b>60.9</b>	<b>60.9</b>
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	<b>60.9</b>	<b>60.9</b>
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	<b>61.0</b>	<b>61.0</b>
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	<b>61.0</b>	<b>61.0</b>
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	<b>60.8</b>	<b>60.8</b>
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	<b>61.0</b>	<b>61.0</b>
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	<b>60.8</b>	<b>60.8</b>
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	<b>60.7</b>	<b>60.7</b>
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	<b>60.8</b>	<b>60.8</b>

## ■ DIAGNÓSTICO DEL RENDIMIENTO DEL SISTEMA

### ■ RESUMEN GENERAL:

- Total de días con datos: **6**
- Total de mediciones: **134**
- Promedio de mediciones por día: **22.3**
- Rango de mediciones diarias: **18 - 24**

■ Métrica	■ Intervalos Medición (min)	■ Intervalos Inserción (min)
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Media	61.69	61.69
Mediana	60.73	60.75
Desv. Estándar	7.47	7.47
Mínimo	60.45	60.47
Máximo	122.17	122.17
Q1 (25%)	60.70	60.68
Q3 (75%)	60.83	60.82
Total Intervalos	133	133

■ DETALLE DE MEDICIONES POR DÍA:

■ Fecha	■ N° Mediciones
2025-11-10	23
2025-11-11	22
2025-11-12	24
2025-11-13	24
2025-11-14	23
2025-11-15	18