

■ REPORTE DE DATOS - AGUA-02

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

- Descripción del Dataset:
- Fecha inserción inicial: 2025-11-10 00:37:07
- Fecha inserción final: 2025-11-15 17:01:40
- Código interno: AGUA-02

■ 2 archivos procesados | ■ 128 registros totales | ■ Carpetas de fechas: 1

■ Archivo	■ Fecha Carpeta	■ Registros
AGUA-02_paquete_001_20251114.csv	2025-11-10	100
AGUA-02_paquete_002_20251115.csv	2025-11-10	28

■ 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%	94.5%	99.2%	■ EXCELENTE	0	8.82%
DS3231 [Grados celcius (°C)]	100.0%	100.0%	60.0%	94.5%	89.2%	■ BUENA	0	32.39%
Divisor de Voltaje [Voltaje (V)]	100.0%	100.0%	100.0%	94.5%	99.2%	■ EXCELENTE	0	0.35%
ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	100.0%	100.0%	100.0%	94.5%	99.2%	■ EXCELENTE	0	4.55%

ENV-20-pH [pH ambiental (pH)]	100.0%	90.6%	100.0%	94.5%	96.4%	■ EXCELENTE	12	4.26%
SIM7600G [Intensidad señal telefónica (Adimensional)]	100.0%	79.7%	60.0%	94.5%	83.1%	■ BUENA	26	31.93%

■ 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)]	22.3012	22.2800	20.5600	1.9679	3.8725	18.6200	27.6200	20.7625	23.6375	128
DS3231 [Grados celcius (°C)]	25.2656	22.7500	19.2500	8.1845	66.9860	14.0000	44.2500	18.9375	31.3125	128
Divisor de Voltaje [Voltaje (V)]	12.2350	12.2400	12.1800	0.0426	0.0018	12.1700	12.3200	12.1975	12.2700	128
ENV-20-EC-K1.0 [Electroconductividad ambiental (µS/cm)]	1583.0078	1580.0000	1509.0000	71.9810	5181.2677	1430.0000	1719.0000	1532.7500	1644.0000	128
ENV-20-pH [pH ambiental (pH)]	7.8873	8.0000	8.0200	0.3361	0.1129	6.6300	8.3200	7.8200	8.0925	128
SIM7600G [Intensidad señal telefónica (Adimensional)]	18.7578	21.0000	22.0000	5.9892	35.8700	3.0000	24.0000	20.0000	22.0000	128

■ 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_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
2025-11-10 00:36:22	2025-11-10 00:37:07	13	AGUA-02	21.69	18.25	12.22	1581.0	8.2	22.0	Primera	Primera
2025-11-10 01:37:07	2025-11-10 01:38:00	13	AGUA-02	21.31	17.5	12.22	1570.0	8.18	20.0	60.9	60.8
2025-11-10 02:38:01	2025-11-10 02:39:21	13	AGUA-02	21.06	16.75	12.21	1559.0	8.15	10.0	61.4	60.9
2025-11-10 03:39:21	2025-11-10 03:40:14	13	AGUA-02	20.88	16.0	12.2	1549.0	8.14	10.0	60.9	61.3
2025-11-10 04:40:28	2025-11-10 04:41:13	13	AGUA-02	20.56	15.25	12.18	1538.0	8.1	20.0	61.0	61.1
2025-11-10 05:41:14	2025-11-10 05:41:58	13	AGUA-02	20.56	14.5	12.19	1529.0	8.11	22.0	60.8	60.8
2025-11-10 06:41:59	2025-11-10 06:42:42	13	AGUA-02	20.25	14.0	12.17	1514.0	8.09	22.0	60.7	60.8
2025-11-10 07:42:46	2025-11-10 07:43:31	13	AGUA-02	19.38	14.5	12.17	1499.0	8.08	20.0	60.8	60.8
2025-11-10 08:43:42	2025-11-10 08:44:35	13	AGUA-02	19.5	17.25	12.18	1509.0	8.06	21.0	61.1	60.9
2025-11-10 09:44:57	2025-11-10 09:45:50	13	AGUA-02	19.75	20.5	12.21	1529.0	7.85	21.0	61.2	61.2
2025-11-10 10:46:05	2025-11-10 10:46:49	13	AGUA-02	20.25	22.75	12.23	1547.0	7.98	22.0	61.0	61.1
2025-11-10 12:48:37	2025-11-10 12:49:21	13	AGUA-02	24.81	27.5	12.25	1623.0	7.52	21.0	122.5	122.5

2025-11-10 13:49:42	2025-11-10 13:50:26	13	AGUA-02	24.06	31.25	12.24	1658.0	7.46	23.0	61.1	61.1
2025-11-10 14:50:37	2025-11-10 14:51:22	13	AGUA-02	24.94	34.25	12.27	1686.0	7.63	23.0	60.9	60.9
2025-11-10 15:51:35	2025-11-10 15:52:19	13	AGUA-02	27.38	34.5	12.28	1719.0	7.86	23.0	61.0	61.0
2025-11-10 16:52:24	2025-11-10 16:53:17	13	AGUA-02	26.88	36.25	12.3	1714.0	7.95	23.0	61.0	60.8
2025-11-10 17:53:27	2025-11-10 17:54:11	13	AGUA-02	25.19	36.0	12.3	1697.0	8.1	22.0	60.9	61.0
2025-11-10 18:53:55	2025-11-10 18:54:39	13	AGUA-02	24.25	30.25	12.3	1675.0	8.23	23.0	60.5	60.5
2025-11-10 19:54:33	2025-11-10 19:55:37	13	AGUA-02	23.56	26.25	12.27	1649.0	8.32	21.0	61.0	60.6
2025-11-10 20:55:23	2025-11-10 20:56:10	13	AGUA-02	22.31	23.0	12.25	1613.0	8.31	22.0	60.5	60.8
2025-11-10 21:56:06	2025-11-10 22:59:12	13	AGUA-02	22.81	22.0	12.25	1603.0	8.3	23.0	123.0	60.7
2025-11-10 22:57:51	2025-11-10 22:59:16	13	AGUA-02	22.38	20.25	12.24	1597.0	8.22	23.0	0.1	61.8
2025-11-10 23:59:14	2025-11-11 00:00:09	13	AGUA-02	21.88	18.75	12.23	1586.0	8.16	24.0	60.9	61.4
2025-11-11 01:00:09	2025-11-11 02:03:00	13	AGUA-02	21.5	17.5	12.22	1574.0	8.12	7.0	122.8	60.9
2025-11-11 03:03:22	2025-11-11 03:04:41	13	AGUA-02	20.56	16.75	12.18	1547.0	8.08	7.0	61.7	123.2
2025-11-11 04:04:44	2025-11-11 04:05:39	13	AGUA-02	20.31	16.25	12.19	1535.0	8.08	7.0	61.0	61.4
2025-11-11 05:05:41	2025-11-11 05:06:29	13	AGUA-02	19.88	15.75	12.18	1523.0	8.06	20.0	60.8	61.0
2025-11-11 06:06:38	2025-11-11 06:07:31	13	AGUA-02	19.56	15.0	12.18	1509.0	8.05	22.0	61.0	61.0
2025-11-11 07:07:32	2025-11-11 07:08:24	13	AGUA-02	19.19	15.25	12.18	1499.0	8.04	23.0	60.9	60.9
2025-11-11 08:08:33	2025-11-11 08:09:17	13	AGUA-02	18.88	16.5	12.17	1491.0	8.05	19.0	60.9	61.0
2025-11-11 09:09:29	2025-11-11 09:10:13	13	AGUA-02	18.62	18.75	12.18	1504.0	7.97	21.0	60.9	60.9
2025-11-11 10:10:30	2025-11-11 10:11:14	13	AGUA-02	18.94	20.75	12.2	1513.0	7.77	21.0	61.0	61.0
2025-11-11 11:11:26	2025-11-11 11:12:50	13	AGUA-02	19.75	22.75	12.24	1538.0	8.03	7.0	61.6	60.9

2025-11-11 12:13:05	2025-11-11 13:16:10	13	AGUA-02	20.12	25.0	12.24	1558.0	7.65	8.0	123.3	61.6
2025-11-11 14:16:52	2025-11-11 14:18:31	13	AGUA-02	22.56	31.5	12.26	1616.0	7.35	23.0	62.4	123.8

■ 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 15:18:55	2025-11-11 15:19:52	13	AGUA-02	23.5	36.5	12.27	1645.0	7.42	21.0	61.4	62.0
2025-11-11 16:20:04	2025-11-11 16:20:59	13	AGUA-02	23.69	38.75	12.3	1650.0	7.57	19.0	61.1	61.1
2025-11-11 17:21:01	2025-11-11 17:21:45	13	AGUA-02	25.38	38.25	12.31	1660.0	7.82	22.0	60.8	61.0
2025-11-11 19:22:29	2025-11-11 19:23:22	13	AGUA-02	23.19	32.0	12.31	1594.0	8.11	22.0	121.6	121.5
2025-11-11 20:23:10	2025-11-11 20:23:54	13	AGUA-02	22.31	27.75	12.27	1545.0	8.19	22.0	60.5	60.7
2025-11-11 21:23:47	2025-11-11 21:24:31	13	AGUA-02	21.88	25.0	12.25	1528.0	8.2	23.0	60.6	60.6
2025-11-11 22:24:24	2025-11-11 22:25:28	13	AGUA-02	22.81	23.0	12.25	1520.0	8.17	21.0	61.0	60.6
2025-11-11 23:25:28	2025-11-11 23:26:12	13	AGUA-02	22.12	21.5	12.23	1510.0	8.14	22.0	60.7	61.1
2025-11-12 00:26:11	2025-11-12 00:27:06	13	AGUA-02	21.81	20.5	12.22	1500.0	8.13	22.0	60.9	60.7
2025-11-12 01:27:06	2025-11-12 01:27:50	13	AGUA-02	21.56	19.75	12.22	1490.0	8.09	20.0	60.7	60.9
2025-11-12 02:27:48	2025-11-12 02:28:52	13	AGUA-02	21.25	18.75	12.2	1481.0	8.06	20.0	61.0	60.7
2025-11-12 03:28:53	2025-11-12 03:29:37	13	AGUA-02	20.94	17.75	12.19	1471.0	8.02	22.0	60.8	61.1
2025-11-12 04:29:38	2025-11-12 04:30:58	13	AGUA-02	20.56	16.5	12.19	1462.0	8.02	9.0	61.4	60.8
2025-11-12 05:30:59	2025-11-12 05:31:57	13	AGUA-02	20.19	15.75	12.19	1448.0	8.02	8.0	61.0	61.4
2025-11-12 06:32:08	2025-11-12 06:33:05	13	AGUA-02	19.88	15.0	12.18	1439.0	8.01	21.0	61.1	61.1
2025-11-12 07:33:09	2025-11-12 07:33:53	13	AGUA-02	19.38	15.5	12.18	1430.0	8.03	20.0	60.8	61.0

2025-11-12 08:34:07	2025-11-12 08:35:00	13	AGUA-02	19.38	19.25	12.2	1433.0	8.05	22.0	61.1	61.0
2025-11-12 09:35:19	2025-11-12 09:36:03	13	AGUA-02	19.31	22.0	12.22	1443.0	7.69	21.0	61.0	61.2
2025-11-12 10:36:20	2025-11-12 10:37:04	13	AGUA-02	19.56	24.75	12.24	1447.0	7.86	20.0	61.0	61.0
2025-11-12 11:37:20	2025-11-12 11:38:04	13	AGUA-02	20.12	27.0	12.24	1481.0	7.93	22.0	61.0	61.0
2025-11-12 13:40:18	2025-11-12 13:41:18	13	AGUA-02	22.31	33.75	12.25	1511.0	6.75	6.0	123.2	123.0
2025-11-12 14:41:43	2025-11-12 14:42:41	13	AGUA-02	22.75	37.5	12.28	1509.0	6.63	21.0	61.4	61.4
2025-11-12 15:43:04	2025-11-12 15:43:48	13	AGUA-02	23.62	41.75	12.31	1655.0	6.94	22.0	61.1	61.4
2025-11-12 16:43:58	2025-11-12 16:45:22	13	AGUA-02	24.25	42.75	12.3	1674.0	7.32	6.0	61.6	60.9
2025-11-12 17:45:30	2025-11-12 17:46:28	13	AGUA-02	24.62	44.25	12.32	1688.0	7.47	7.0	61.1	61.5
2025-11-12 18:46:18	2025-11-12 18:47:05	13	AGUA-02	24.69	37.25	12.31	1685.0	7.79	22.0	60.6	60.8
2025-11-12 19:46:59	2025-11-12 19:47:52	13	AGUA-02	23.94	34.0	12.3	1664.0	7.98	20.0	60.8	60.7
2025-11-12 20:47:36	2025-11-12 20:48:20	13	AGUA-02	23.19	29.5	12.28	1639.0	8.12	23.0	60.5	60.6
2025-11-12 21:48:10	2025-11-12 21:48:54	13	AGUA-02	22.75	26.0	12.25	1623.0	8.14	23.0	60.6	60.6
2025-11-12 22:48:47	2025-11-12 22:50:12	13	AGUA-02	23.31	23.75	12.24	1610.0	8.16	5.0	61.3	60.6
2025-11-12 23:50:10	2025-11-12 23:51:16	13	AGUA-02	22.81	22.25	12.24	1599.0	8.11	12.0	61.1	61.4
2025-11-13 00:51:25	2025-11-13 00:52:48	13	AGUA-02	22.38	20.75	12.21	1589.0	8.07	3.0	61.5	61.2
2025-11-13 01:52:50	2025-11-13 01:53:46	13	AGUA-02	22.0	19.75	12.22	1583.0	8.03	7.0	61.0	61.4
2025-11-13 02:53:58	2025-11-13 02:55:08	13	AGUA-02	21.56	18.75	12.21	1568.0	8.01	21.0	61.4	61.1
2025-11-13 03:55:09	2025-11-13 03:55:52	13	AGUA-02	21.25	17.75	12.19	1558.0	7.99	21.0	60.7	61.2

■ 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. Inserción	■ Min. Dif. Medicion
2025-11-13 04:55:54	2025-11-13 04:56:47	13	AGUA-02	20.94	17.0	12.18	1549.0	7.99	22.0	60.9	60.8
2025-11-13 05:56:48	2025-11-13 05:57:34	13	AGUA-02	20.62	17.25	12.18	1556.0	7.99	19.0	60.8	60.9
2025-11-13 06:57:45	2025-11-13 06:58:48	13	AGUA-02	20.31	17.25	12.18	1545.0	8.02	21.0	61.2	61.0
2025-11-13 07:58:55	2025-11-13 07:59:38	13	AGUA-02	20.19	19.25	12.18	1538.0	8.02	22.0	60.8	61.2
2025-11-13 09:00:00	2025-11-13 09:01:04	13	AGUA-02	19.81	22.75	12.22	1542.0	7.86	21.0	61.4	61.1
2025-11-13 10:01:23	2025-11-13 10:02:15	13	AGUA-02	21.44	25.5	12.24	1557.0	7.46	21.0	61.2	61.4
2025-11-13 11:02:33	2025-11-13 12:06:26	13	AGUA-02	20.31	28.25	12.25	1565.0	7.84	7.0	124.2	61.2
2025-11-13 12:04:35	2025-11-13 12:06:31	13	AGUA-02	21.31	30.5	12.25	1577.0	6.99	7.0	0.1	62.0
2025-11-13 14:08:25	2025-11-13 14:09:24	13	AGUA-02	23.38	37.0	12.26	1644.0	6.67	22.0	122.9	123.8
2025-11-13 15:09:38	2025-11-13 15:10:57	13	AGUA-02	24.0	39.75	12.29	1661.0	6.99	8.0	61.5	61.2
2025-11-13 16:11:15	2025-11-13 16:12:17	13	AGUA-02	24.56	43.0	12.3	1662.0	7.13	3.0	61.3	61.6
2025-11-13 17:12:37	2025-11-13 17:13:41	13	AGUA-02	25.12	43.0	12.31	1652.0	7.47	20.0	61.4	61.4
2025-11-13 18:13:41	2025-11-13 18:14:25	13	AGUA-02	25.0	40.5	12.31	1618.0	7.64	21.0	60.7	61.1
2025-11-13 19:14:05	2025-11-13 19:14:49	13	AGUA-02	26.12	37.25	12.29	1573.0	7.91	22.0	60.4	60.4
2025-11-13 20:14:41	2025-11-13 20:15:25	13	AGUA-02	23.5	32.75	12.29	1534.0	8.04	23.0	60.6	60.6
2025-11-13 21:15:12	2025-11-13 21:16:16	13	AGUA-02	23.44	28.75	12.26	1506.0	8.11	23.0	60.9	60.5

2025-11-13 22:16:08	2025-11-13 22:17:14	13	AGUA-02	23.12	26.25	12.24	1483.0	8.13	23.0	61.0	60.9
2025-11-13 23:17:10	2025-11-13 23:18:03	13	AGUA-02	22.75	24.75	12.24	1464.0	8.13	21.0	60.8	61.0
2025-11-14 00:18:01	2025-11-14 00:18:45	13	AGUA-02	22.31	23.5	12.24	1524.0	8.09	22.0	60.7	60.9
2025-11-14 01:18:45	2025-11-14 01:19:48	13	AGUA-02	23.5	22.0	12.22	1623.0	8.1	22.0	61.0	60.7
2025-11-14 02:19:49	2025-11-14 02:20:33	13	AGUA-02	22.94	20.75	12.21	1617.0	8.04	20.0	60.8	61.1
2025-11-14 03:20:37	2025-11-14 03:21:29	13	AGUA-02	22.38	20.0	12.19	1610.0	8.02	20.0	60.9	60.8
2025-11-14 04:21:29	2025-11-14 04:22:33	13	AGUA-02	22.0	19.0	12.18	1602.0	8.0	24.0	61.1	60.9
2025-11-14 05:22:32	2025-11-14 05:23:36	13	AGUA-02	21.62	18.0	12.18	1589.0	8.0	20.0	61.0	61.0
2025-11-14 06:23:38	2025-11-14 06:24:31	13	AGUA-02	21.25	17.5	12.18	1573.0	7.98	20.0	60.9	61.1
2025-11-14 07:24:33	2025-11-14 07:26:02	13	AGUA-02	20.88	17.5	12.18	1564.0	8.0	12.0	61.5	60.9
2025-11-14 08:26:12	2025-11-14 08:27:09	13	AGUA-02	21.62	19.75	12.19	1564.0	8.03	6.0	61.1	61.6
2025-11-14 09:27:30	2025-11-14 09:28:16	13	AGUA-02	20.81	23.25	12.21	1574.0	7.79	21.0	61.1	61.3
2025-11-14 10:28:32	2025-11-14 10:29:16	13	AGUA-02	20.94	26.0	12.24	1584.0	7.82	21.0	61.0	61.0
2025-11-14 11:29:31	2025-11-14 11:30:24	13	AGUA-02	21.56	28.25	12.25	1599.0	7.96	22.0	61.1	61.0
2025-11-14 12:30:37	2025-11-14 12:31:21	13	AGUA-02	22.88	30.25	12.25	1629.0	7.23	23.0	61.0	61.1
2025-11-14 13:31:38	2025-11-14 13:32:22	13	AGUA-02	23.94	33.75	12.26	1662.0	7.32	23.0	61.0	61.0
2025-11-14 14:32:36	2025-11-14 14:33:40	13	AGUA-02	24.75	36.5	12.28	1693.0	7.33	23.0	61.3	61.0
2025-11-14 15:34:00	2025-11-14 15:34:44	13	AGUA-02	25.62	39.0	12.3	1719.0	7.58	23.0	61.1	61.4
2025-11-14 16:34:46	2025-11-14 16:35:30	13	AGUA-02	25.69	40.0	12.28	1709.0	7.72	21.0	60.8	60.8

■ DATOS COMPLETOS - Página 4 (Filas 106-128)

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
2025-11-14 17:35:34	2025-11-14 17:36:18	13	AGUA-02	26.25	39.75	12.3	1712.0	7.92	19.0	60.8	60.8
2025-11-14 18:36:15	2025-11-14 18:37:00	13	AGUA-02	27.62	34.5	12.3	1716.0	8.02	24.0	60.7	60.7
2025-11-14 19:36:47	2025-11-14 19:37:31	13	AGUA-02	24.94	31.25	12.3	1708.0	8.1	22.0	60.5	60.5
2025-11-14 20:37:14	2025-11-14 20:38:40	13	AGUA-02	24.62	27.0	12.24	1690.0	8.14	7.0	61.1	60.5
2025-11-14 21:38:35	2025-11-14 21:39:34	13	AGUA-02	24.12	24.5	12.24	1673.0	8.18	8.0	60.9	61.4
2025-11-14 22:39:42	2025-11-14 22:40:45	13	AGUA-02	24.19	22.75	12.24	1657.0	8.14	22.0	61.2	61.1
2025-11-14 23:40:42	2025-11-14 23:41:35	13	AGUA-02	23.81	21.0	12.24	1644.0	8.08	24.0	60.8	61.0
2025-11-15 00:41:33	2025-11-15 00:42:17	13	AGUA-02	23.44	19.75	12.22	1631.0	8.04	23.0	60.7	60.9
2025-11-15 01:42:19	2025-11-15 01:43:03	13	AGUA-02	23.0	19.25	12.22	1618.0	7.99	19.0	60.8	60.8
2025-11-15 02:43:08	2025-11-15 02:43:52	13	AGUA-02	22.81	19.25	12.21	1613.0	8.0	20.0	60.8	60.8
2025-11-15 03:43:56	2025-11-15 03:45:17	13	AGUA-02	22.44	19.25	12.2	1604.0	7.98	7.0	61.4	60.8
2025-11-15 04:45:22	2025-11-15 05:48:12	13	AGUA-02	22.25	19.0	12.18	1600.0	7.97	6.0	122.9	61.4
2025-11-15 06:48:44	2025-11-15 06:49:28	13	AGUA-02	21.94	19.25	12.18	1586.0	7.95	21.0	61.3	123.4
2025-11-15 07:49:34	2025-11-15 07:50:17	13	AGUA-02	21.69	19.5	12.18	1579.0	7.94	23.0	60.8	60.8
2025-11-15 08:50:22	2025-11-15 08:51:06	13	AGUA-02	21.5	19.75	12.18	1573.0	7.94	22.0	60.8	60.8
2025-11-15 09:51:15	2025-11-15 09:52:19	13	AGUA-02	21.38	20.25	12.2	1568.0	7.96	21.0	61.2	60.9

2025-11-15 10:52:27	2025-11-15 10:53:10	13	AGUA-02	20.25	21.5	12.22	1562.0	7.96	23.0	60.9	61.2
2025-11-15 11:53:23	2025-11-15 11:54:28	13	AGUA-02	20.5	23.0	12.24	1558.0	7.97	22.0	61.3	60.9
2025-11-15 12:54:41	2025-11-15 13:57:44	13	AGUA-02	21.25	24.5	12.24	1587.0	7.82	24.0	123.3	61.3
2025-11-15 13:56:47	2025-11-15 13:57:49	13	AGUA-02	23.88	28.25	12.26	1611.0	7.63	24.0	0.1	62.1
2025-11-15 14:58:09	2025-11-15 14:58:53	13	AGUA-02	23.5	33.5	12.27	1646.0	7.61	22.0	61.1	61.4
2025-11-15 15:59:16	2025-11-15 16:00:09	13	AGUA-02	24.12	37.5	12.27	1662.0	7.7	22.0	61.3	61.1
2025-11-15 17:00:36	2025-11-15 17:01:40	13	AGUA-02	24.69	39.75	12.29	1683.0	7.85	23.0	61.5	61.3

■ DIAGNÓSTICO DEL RENDIMIENTO DEL SISTEMA

■ RESUMEN GENERAL:

- Total de días con datos: **6**
- Total de mediciones: **128**
- Promedio de mediciones por día: **21.3**
- Rango de mediciones diarias: **16 - 24**

■ Métrica	■ Intervalos Medición (min)	■ Intervalos Inserción (min)
Media	64.44	64.45
Mediana	61.02	60.98
Desv. Estándar	14.21	19.53
Mínimo	60.40	0.07
Máximo	123.83	124.18
Q1 (25%)	60.81	60.82
Q3 (75%)	61.27	61.26
Total Intervalos	127	127

■ DETALLE DE MEDICIONES POR DÍA:

■ Fecha	■ N° Mediciones
2025-11-10	23
2025-11-11	20
2025-11-12	23
2025-11-13	22
2025-11-14	24
2025-11-15	16