TECHNICAL SPECIFICATIONS
SIGMA 911 ATEX A/V Flow Meter

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Intrinsically Safe ATEX Portable Area/Velocity Open-Channel Flow Meter

Intrinsically Safe ATEX certified Open Channel Flow Meter for use in hazardous or potentially hazardous environments, providing portable battery operated Area/Velocity Flow measurements. To be used with Sigma ATEX Submerged Ultrasonic Doppler/Pressure A/V Sensors only.

The HACH-Sigma 911 ATEX A/V Flow Meter (shown with the HACH-Sigma ATEX A/V Submerged Pressure Sensor) is a robust system specially developed to withstand harsh environments typical of collections systems.

It provides reliable, accurate data with minimal maintenance and greater life expectancy.

Measures average velocity directly, without the need for flow profiling.

General Specifications

- Dimensions: 165 mm Diam. x 570 mm L with 12 Ah rechargeable battery
- Weight: 8 kg with 12 Ah battery
- Enclosure Material: PVC
- Enclosure Rating: IP67
- Certification: ATEX approved, EEx ia IIB T3
- Operating Temperature Range: -18°to 60℃
- Storage Temperature Range: -40°to 60℃
- Power Source: One 12V, 12 Ah lead-acid rechageable battery
- Battery Life: With 12 Ah battery, 240 days typical with a 15-minute recording interval. Assumes data download once per week, at 10℃, also affected by site condi tions
- Monitor Intervals: 1, 2, 3, 5, 6, 10, 12, 15, 20, 30, and 60 minutes
- Program Memory: Non-volatile, programmable flash, can be updated via RS-232 port
- Time Based Accuracy: ± 1 second per day

Units of measurement:

- Level: **m, cm**
- Flow: **l/s, l/M, l/H, m^3/s, m^3/M, m^3/H, m^3/D**
- Totalized flow: **l, m^3**

Optically Isolated Sampler Output:

- 6-12 VDC pulse, 100 mA max, at 500 ms duration flow proportional
- Data Storage Capacity: 90 days of 1 level reading and 1 velocity reading at a 15-minute recording interval
- Data Types: Level and Velocity
- Storage Mode: Wrap or slate

Communications

- Serial connection via optically isolated interface to IBM compatible computer with American Sigma data analysis software

Data Storage

- Capacity : 20 days of 1 level reading and 1 velocity reading at 15-minute recording interval
- Data Types: Level and Velocity
- Storage Mode: Wrap or fixed

Connector

- Hard anodized; satifies Military Spec 5015

Possible Sensor(s)

- The Model 911 can only work with the Sigma ATEX certified AV Submerged Pressure Sensor

Changes without notice
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ISO9001 CERTIFIED VINÇOTTE

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