Sonata water meter

Arad

Just like the Arad Octave, the Arad Sonata is an accurate and reliable ultrasonic water meter. The Sonata has good hydraulic characteristics and advanced capabilities. The Sonata has a built-in double pulse output signal with separated contacts (SSR). The flow direction for the Sonata can be set bi-directionally and the Sonata can be mounted in any position. There are therefore no instal-lation guidelines for Sonata. The special sensor device also makes the Sonata much less sensitive to measuring air. Due to the large flow opening, the Sonata is ideally suited for measuring polluted/drain water.

Note: Because the Sonata is designed to measure liquids with the same density and viscosity as water, this meter is not suitable for measuring liquids with a different density and viscosity.

APPLICATION

Irrigation and drainage systems

CHARACTERISTICS

- No moving parts, very low clogging vulnerability
- 2 models available, with or without pulse output (SSR)
- Durable flow and volume measurement
- Battery service life expectancy 15+ years
- Very accurate measurement at low flows
- Bi-directional measurement
- Programmable output

TECHNICAL DATA

Accuracy	: +/- 1% between Q2 & Q4
	: +/- 2% between Q1 & Q2
Size	: DN25 (1”)
Connection	: 1¼” BSP thread
Output (default)	: #1 (red+orange) 1P=1L forward
	#2 (black+brown)1P=0,1L forward
	: no pulse
Pulse resolution	: 1 pulse per 0,1-1-10-100-1000 litre
Flow direction	: forward/reverse per output
Max. current	: 120 mA (AC/DC)
Max. tension	: 36 volt (AC/DC)
Minimum pressure	: 0,7 bar
Maximum pressure	: 16 bar
Start flow	: 3 l/h
Minimum capacity	: 20 l/h
Maximum capacity	: 12,5 m³/h
Temperature	: 0,1 °C to 50 °C
Head loss	: Check graph
Weight	: 0,9 kg
Material	: PPS reinforced
Dimensions	: 260 mm (length)
	: 121 mm (height)
	: 80 mm (width)
Norm	: MID, CE, ISO 4064 (2005), AWWA C 750, WRAS, KTW
Protection	: IP68
Cable length	: 1,3 meter (double pulse model)

Performance

Nominal size	mm inch	DN25 1”
Minimum capacity Q1	m³/h	0,020
Transitional capacity Q2	m³/h	0,032
Nominal capacity Q3	m³/h	10
Maximum capacity Q4	m³/h	12,5