



iSonic 3000

Intelligent ultrasonic meter/controller



Features

- Internal data logger
- Calculation with front software
- Totalisator for each channel available

Description

The iSonic is an intelligent and versatile ultrasonic meter / controller designed to measure level, volume and open channel flow. iSonic's unique features allow accurate measurements in harsh environments. The iSonic uses the measured signals for control purposes and for recording to an internal datalogger.

Applications

In fresh and waste water applications, iSonic measures level and calculates flow rates in combination with weirs or flumes using one of its preprogrammed conversion formulas or a 35 point conversion table. With the possibility of the multichannel measurement, the unit can add, subtract and average. Totalizer functionality is provided for each channel.

Application

- Influent- and effluent measurements
- 2-channel flow measurements
- Flow control
- Level differential measurements
- Rake control in sewage plants
- Datalogging

Parameters

The unit can be programmed to different set points. The output is done via the 2 available relays or the 4 analog outputs. As a recorder, the instrument is capable of storing data intervals, whilst logging all data channels. iSonic can interface four ultrasonic sensors simultaneously, performing independent or combined level, volume and open channel flow measurements.



Technical data

Type	iSonic 3000 (4-channel measurement)
Enclosure	Metal / Aluminum housing
Dimensions HxWxD	180 x 180 x 80 mm
Protection class	IP67
Operating temperature range	-25°C to +45°C
Outputs	4 analog outputs 4-20, isolated 2 relays, Reed, 200 V / 500 mA programmable, galvanically isolated 2 digital outputs max. 35 VDC / 50 mA ModBus® isolated RS485 (2-wire), RS422 (4-wire)
Inputs	4 analog inputs 4-20 mA
Display function	4 lines for level, flow, total, volume, distance and status
Display language	English
Supply voltage	85 – 230 VAC or 12 VDC (optional)
Programming	PC with software (password protected)
Datalogger	SD card, programmable time intervals, records available as table
Interface	USB optional: Ethernet, M-Bus

Sensors	Type	Measuring range	Offset	Beam angle	Material	Approval
	DL10	0-1250mm	50mm	2°	PVDF	-
	DL24	0-3000mm	100mm	2°	PVDF	-
	ULM53	0-6000mm	200mm	14°	PVC/PVDF	-
	ULM70	0-2000mm	200mm	10°	PVC/PVDF	II 1/2G Ex ia IIB T5

Measurement accuracy within the total range	DL10	± 0,5 %
	DL24	± 0,5 %
	ULM53	± 0,5 %
	ULM70	± 0,5 %