SL1168 Economical Ultrasonic Transit-Time Flow Meter for Water Applications

FEATURES

- **Accuracy +/- 1.0% of reading (0.5 to 4.0 mps)**
- **Repeatability +/- 0.3% of reading**
- **Wide operating temperature range (0°C to 60°C)**
- **Wide bi-directional Flow range of 0 to 40 ft/s (0 to 12 m/s)**
- **One meter for a wide range of pipe sizes from 1" to 48" (25mm to 1200mm)**
- **Analogue 4-20mA Output.**
- **Configurable OCT pulse and relay output**
- **RS 232 (RS 485 optional)**
- **10-36 VDC, 1A**
- **Daily, monthly and yearly totalized flow**
- **16 (4 x 4) keyboard with 20 x 2 line display**
- **Clamp-on encapsulated IP 68 sensors require no pipe cutting, no plant shutdown, are a hygenic measurement leading to lower installation and labor costs**
- **Energy Meter Option with temperature inputs.**
- **Lightweight (0.7 kg; 1.5 lb) PC/ABS IP 65 transmitter**
- **Measurement is independent of fluid conductivity meaning a wider applicability compared to magnetic meters**
- **Programmable frequency output**
- **Wetted Sensor Option**
- **High Temperature Sensor Option 150 °C**

Standard Clamp On Transducers

GENERAL DESCRIPTION

The SL1168 ultrasonic flow meter delivers highly accurate and repeatable flow measurement for water at a significantly reduced cost. Incorporating the core technologies of the SL1188 Industrial meter, the design of the SL1168 universal transit-time flow meter is focused on those features that optimize the measurement of water flows in irrigation, swimming pool, clean waste discharge, building services and other water applications.

Ideal for pipes up to 48" (1200 mm) in diameter, the SL1168 promises accuracy to +/-1.0% of reading, repeatability of +/-0.3% of reading and a temperature range of 0°C to 60°C. High temperature sensors to 150°C are available as an option.

The SL1168 offers low power consumption and high reliability at a very competitive price. An easy to read display and clear, user-friendly menu selections make using the instrument simple and convenient. It can be configured via a 4x4 keypad without additional programming devices and features a 20 x 2 digit alpha-numeric display.

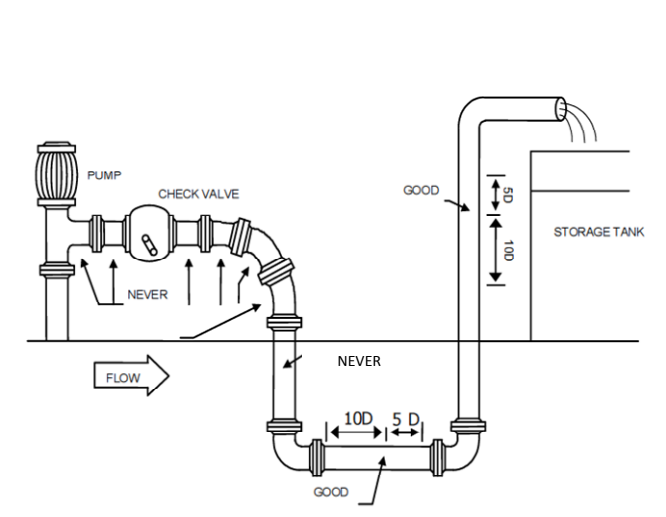
The SL1168 features a programmable frequency output, a relay output and a programmable current loop output. RS 232 and MODBUS RTU are standard, while RS 485 is optional.

The SL1688 is packaged in a lightweight polycarbonate IP65 housing and includes clamp-on encapsulated IP 68 sensors that are easy to install and require no pipe cutting, thereby reducing installation and labor costs. Where pipes are found to be acoustically dead wetted sensors are available

SPECIFICATIONS

Digital Correlation Transit Time Flowmeter
Installation method: wall mount
Flow Range: ±0 to 40ft/s (±0 to 12 m/s)
Accuracy: ±1% of measurement
Repeatability: 0.3%
Pipe Size Range:25mm ~ 1200mm;
Keyboard:16（4×4）touch keys
Display: 20*2, alphanumeric, backlit LCD
Power supply: 10-30V DC@1Amax
Transmitter enclosure: IP65, ABS/PC enclosure
Output: OCT pulse output 0-10KHz, Relay output, 4-20mA optional
Communication: RS232,RS485, Modbus Protocol
Temperature:0~60℃
Cable length: 9m
Protection rating:IP68

INSTALLATION POSITION



ORDERING CODE

SL1168 — **1** — **CP**

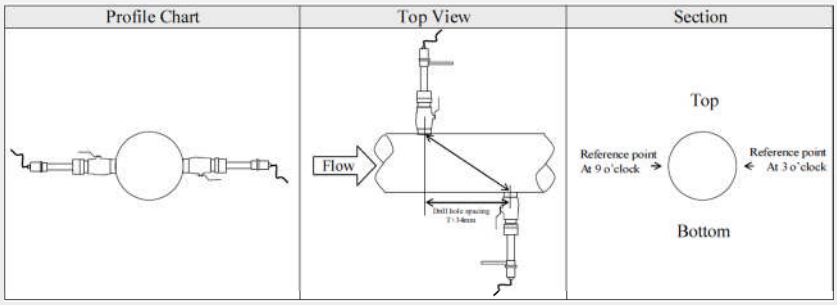
PARENT MODEL NUMBER

SL1168 DIGITAL CORRELATION TRANSIT-TIME FLOW METER
Economical digital correlation transit time flow meter; flow range: ±0 to 40 ft/s (±0 to 12 m/s); accuracy 1.0% of reading over ±1.5 to 13 ft/s (±0.5 to 4 m/s); Pipe Range 1" to 48" (25 mm to 1200 mm) Pushbutton data entry (4x4) and integral display. 10 to 24 VAC and 10 to 36 VDC at 1A; IP 65, ABS/PC enclosure; 4-20 mA DC output; OCT 0 to 10 kHz. Relay, RS 232 (RS 485 optional) Operating temp 0°C to 60°C (32°F to 140°F). Modbus RTU

OUTPUT OPTION
1=OCT output, Relay output, RS232
2=OCT output, Relay output, RS485
3=OCT output, Relay output, RS232,4-20mA output
4=OCT output, Relay output, RS232,RTD Temperature input

TYPE OF TRANSDUCER
CP=Clamp on transducer, Operating temperature: 0 ~ +60℃
HT=Clamp on transducer, Operating temperature: 0 ~ +150℃
WS=Insertion transducer (small), Operating temperature: -40 ~ +80℃, apply to the pipe size below DN400

Optional Wetted Sensor Installation



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