

SL1188 Industrial Non-Invasive Ultrasonic Transit-Time Flow Meter

FEATURES

- Accuracy +/-0.5% of Reading
- Wide operating temperature range -40C to 150C
- One meter for a wide range of pipe sizes 25mm-5000mm
- Clamp-on sensors are simple to install, leading to lower installation and labor costs
- Clamp-on sensors mean no pipe cutting or process interruption and no plant shut-down
- Wetted Sensors available for acoustically dead pipes.
- Hygienic measurement, no risk of contamination, suitable for ultra clean liquids
- Wide bi-directional Flow range of 0 to 12Metres/Second
- Daily, monthly and yearly totalized flow
- Internally configured batch controller makes batch control convenient
- Measurement is independent of fluid conductivity meaning a wider applicability than magnetic meters
- 1G SD card high memory data logging, maximum memorize 512 days data.
- Simple Menu driven setup with a wide range of common pipe materials, liners and fluids selectable.
- Temperature inputs for energy measurement,



GENERAL DESCRIPTION

The SiteLab SL1188 Flowmeter is a state-of-the-art universal transit-time Flow Meter for Heavy Industrial applications. Sophisticated electronics incorporating the latest developments in digital signal processing coupled with powerful ultrasonic transducers deliver highly accurate flow measurement for liquids in full pipes. While principally designed for clean liquid applications, the instrument is tolerant of liquids with a small quantity of air bubbles or suspended solids common in most industrial applications.

The SL1188 offers low power consumption, high reliability, and outstanding applicability at an economical price. An easy to read display and clear, user-friendly menu selections make using the instrument simple and convenient. The instrument can be configured via keypad without any additional programming devices, is packaged in a die cast IP65 housing, and is available in your choice of non-invasive clamp-on or insertion transducer configurations.

The SL1188 features a self-contained 4-20 mA current loop signal output for instantaneous flow, as well as two independent temperature inputs for thermal energy monitoring. The instrument also features a 7 digit alpha-numeric display, parallel operation of positive, negative and net flow totalizers (with user-selectable scale factors) and configurable pulse and frequency outputs (transmitted via relay and open collector) for totalized flow.

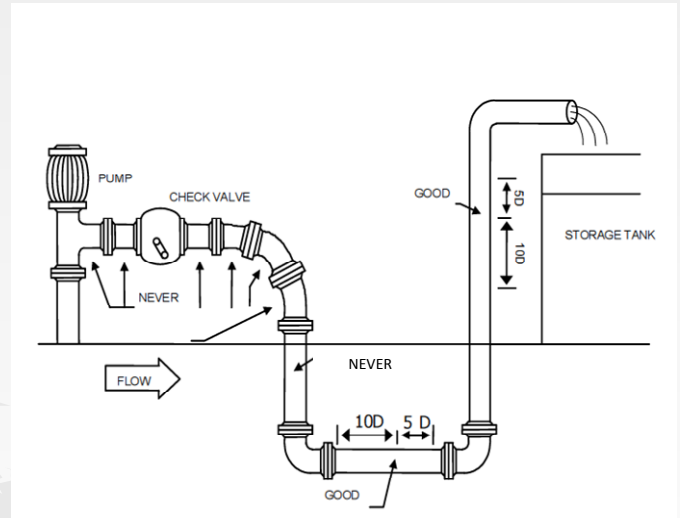
As standard it incorporates a 1G SD Card for data logging and is supplied with the software to download stored data to your PC



SPECIFICATIONS

Flow Range: 0 to ±12 m/s
Accuracy: ± 0.5 % of reading
Repeatability: ±0.3% of reading
Pipe Size: 25mm to 5000mm
Outputs
Analog: 0/4 to 20mA (max load 75Ω)
Pulse output: 0 to 9999Hz, OCT, (min. and max. frequency is adjustable)
Relay output: SPST, max 1Hz, (IA@125VAC or 2A @ 30VDC)
Comms: RS232, RS485 Modbus
Power Supply: 90 to 245 VAC, 48 to 63Hz. Or 10 to 36 VDC (both are standard)
Keypad: 16 (4×4) key with tactile action
Display: 40 character, 2 line (20×2) lattice alphanumeric, backlit LCD
Temperature: Transmitter: -40C to 60C
Transducer: -40C to 100C Standard. -40C to 150C High temp.
Humidity: Up to 99%RH, (non-condensing).
Physical Specifications
Transmitter: IP65 Die-cast aluminum
Transducer: Encapsulated design Standard/maximum cable length: 9m/305Metres
Weight Transmitter: Approximately 4.7 lb (2.15kg)
Transducer: 0.9kg (standard)

INSTALLATION POSITION



ORDERING CODE

SL1188V9

1 - 1 - S - 30

PARENT MODEL NUMBER

Digital Correlation Transit Time Flow Meter Installation method: Wall mount. 1G SD card high memory data logging, maximum memorize 512 days data. Flow Range: 0 to 12 m/s. Accuracy: ±0.5% of measurement. Repeatability: 0.3%. Pipe Size Range : 25mm ~5000mm. Keyboard : 16 (4×4) touch keys. Display: 20*2, alphanumeric, backlit LCD. Power supply: 90-250VAC, 48-63 Hz or 10-36V DC. Transmitter enclosure: IP65, die-cast aluminum machined enclosure. Output: 4~20mADC, OCT pulse output, relay output, Communication: RS-232 / RS-485 terminal Modbus Protocol. Protection rating: IP68.

OUTPUT OPTION

1=4-20mA, OCT pulse output, relay output, RS-232 / RS-485
 2=4-20mA, OCT pulse output, relay output, RS-232 / RS-485, RTD temperature input

ENCLOSURE

1=IP65, die-cast aluminum machined enclosure

TYPE OF TRANSDUCER

S=Clamp on transducer, Operating temperature: -40 ~ +80°C
W=Insertion transducer, Operating temperature: -40 ~ +80°C
WS=Insertion transducer (small), Operating temperature: -40 ~ +80°C, apply to the pipe size below DN400
HT=Clamp on transducer, High Temp to 150C

TRANSDUCER CABLE LENGTH

30= Standard 30Ft (9 Metres)
xxx M =Maximum lengthen to 305m, per 5m is a lengthen unit.



Insertion Transducer

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