



DESCRIPTION

PFLOW F3CL and F3RO flowmeters series adopt the ultrasonic transit time measurement principle, combined with a patented flow algorithm technology, they obtain an accurate measurement of the fluid flow in the pipe.

The product is all-in-one and clip-on structure design, which is simple and convenient to install. Only four steps are needed all along. The installation process requires no contact with fluid media and no need to shut down the flow.

The product is available with standard RS485 Modbus RTU protocol and pulse-frequency Open Collector Transistor and Relay or 4-20mA analog output.

EASY INTALLATION STEPS



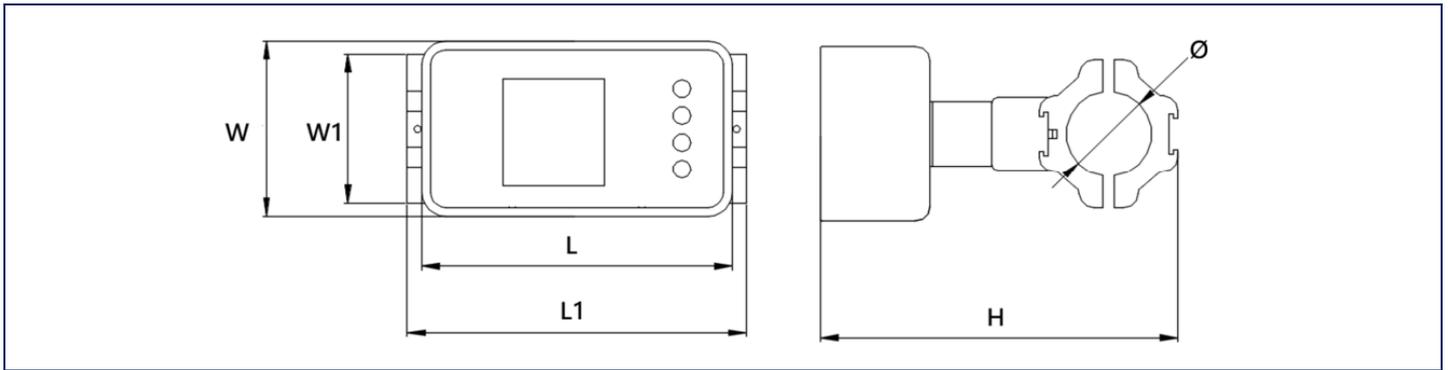
The PFLOW F3 clip-on meter is made with an integrated design, installation is very simple. The meter is directly clipped on the pipe section, and tightened the screws is ready to be turned on and configured to start the flow measurement.

GENERAL SPECIFICATION

Flow Range	0.03m/s to ±5m/s (0.1 ft/s to ±16ft/s)
Accuracy	± 2.0%
Repeatability	0.2%
Pipe size	DN20 to DN80
Medium	Water
Pipe material	Carbon Steel, Stainless Steel, PVC, Copper
Display	1.44" LCD color screen, resolution 128x128
Housing material	ABS+PC
Protection grade	IP54
Electrical connection	6 wires cable
Power supply	10 36Vdc
Power consumption	500mA max
Cable length	2 meters (6.6 ft)
Communication	RS485 Modbus RTU
Outputs	4-20mA (max load resistance750Ω) OCT pulses Relay
Ambient Temperature	-10°C...+50°C
Fluid temperature	0°C...+60°C



DRAWINGS AND DIMENSIONS



DN	W	W1	L	L1	H	Ø
DN20	60	51	105	118	121	29
DN25	60	56	105	118	128	36
DN32	60	63	105	118	135	43
DN40	60	74	105	118	146	54
DN50	60	89	105	153	159	67
DN65	60	102	105	153	172	80
DN80	60	113	105	153	183	91



ORDER CODES

F3	Ultrasonic Clip-on flowmeter
	OUTPUT TYPE
CL-1	4-20mA + RS485 Modbus RTU
RO-2	OCT Pulses + RS485 Modbus RTU
RO-3	Relay + RS485 Modbus RTU
RO-4	OCT Pulses + Relay + RS485 Modbus RTU
	PIPE SIZE
DNxx	PVC / Carbon Steel / Stainless Steel pipes: DN20 (21-29mm) DN25 (28-36mm) DN32 (35-43mm) DN40 (46-54mm) DN50 (59-67mm) DN65 (72-80mm) DN80 (83-91mm)
	Copper pipes: DN25 (21-29mm) DN32 (28-36mm) DN40 (35-43mm) DN50 (46-54mm) DN65 (59-67mm) DN80 (72-80mm)
	PIPE MATERIAL
1	Carbon Steel
2	Stainless Steel
3	Copper (Brass)
4	PVC

FRONT PANEL



FLOW RANGES

DN	Flow Ranges
DN20	0.04...6 m3/h
DN25	0.05...9 m3/h
DN32	0.09...15 m3/h
DN40	0.13...23 m3/h
DN50	0.20...35 m3/h
DN65	0.35...60 m3/h
DN80	0.55...90 m3/h

Example: F3RO-4-DN25-2 (ultrasonic flowmeter with Relay+OCT pulses+RS485 output for DN25 Stainless Steel pipes)