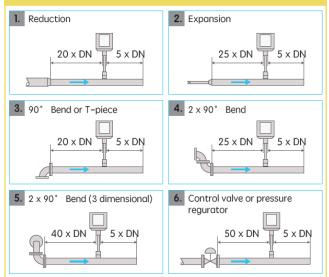


Pitot Tube Flow Meter – Installation Guide

The velocity range for this meter is 5m/s to 300m/s. Due to the method of measurement, pitot tubes are affected by the minimum velocity. Below 5m/s, the flow reading will drop to 0.

Install vertically on a horizontal pipe Sensor must be installed at 90° to the pipe If the flow meter needs to be installed outdoors, protect it from sun and rain

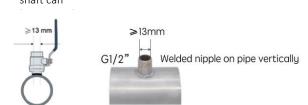
2 Install away from bends / changes in pipe size / obstructions



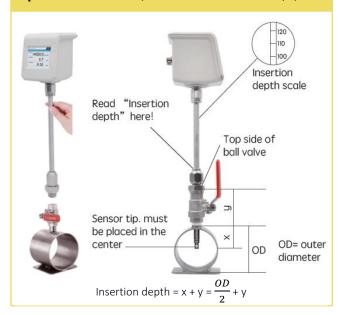
3 Insertion Requirements

To install the sensor, a ball valve and a nipple is needed

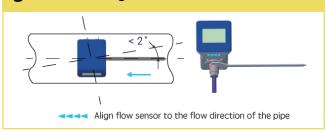
- The ball valve inner thread must be G1/2"
- The diameter of the hole must be≥13mm, otherwise the shaft can



4 Install sensor tip in the centre of the pipe



5 Maximum Angle Deviation of Installation



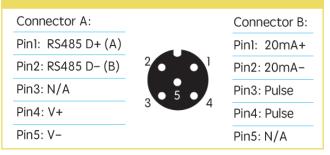
6 Electrical Connection

The flow sensor is equipped with two connector plugs "A" & "B"

Connector plug A

Connector plug B

7 Pin Assignment of M12 Connector





Pitot Tube Flow Meter – Quick Installation Guide

8

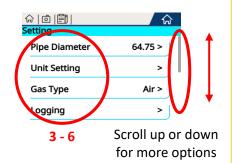
Pitot Tube Flow Meter Settings

Before you use the flow meter, you must set:

- Inner Pipe Diameter
- Unit of Measurement
- Gas Type
- Communication settings (RS485 or Analog)
- **Step 1 –** Unlock the screen. Drag the padlock icon from the left to the right of the screen
- **Step 2 –** Press 'Settings' icon (on top right of screen).
- **Step 3 –** Select "**Pipe Diameter**" and enter the <u>inner</u> pipe diameter measurement (in mm). Press the arrow button to save your settings and return to the previous screen
- Step 4 Select "Unit Setting" and select your units of measure. Press the arrow button to save your settings and return to the previous screen
- Step 5 Select "Gas Type" and select your gas type. Press the arrow button to save your settings and return to the previous screen.
- Step 6 Scroll down and select "RS485 Setting" and/or "Analog Output".

 Enter your Modus settings. Press the arrow button to save your settings and return to the previous screen.





Default Modbus Settings

Settings can be changed to suit system requirements.

Default Modbus RTU (RS485) Settings									
Address	Baud Rate	Frame / Parity / Stop Bit	Response Time	Response Delay	Frame Spacing				
1	9600	8 / N / 1	1 Sec	0 Milliseconds	7 Characters				

Modbus Registers										
Holding Register	Address	Data Type	Byte Length	Description	Unit	Read/Write				
1	0	FLOAT	4	Flow	m³/min, m³/hr, CFM	Read				
3	2	FLOAT	4	Velocity	m/sec or f/sec	Read				
23	22	UNSIGNED INTEGER	4	Consumption/ Totaliser	m³ or CF	Read				
9	8	FLOAT	4	Temperature	°C or °F	Read				