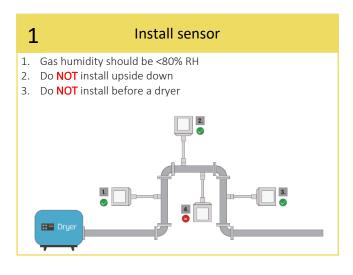
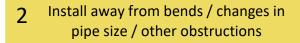
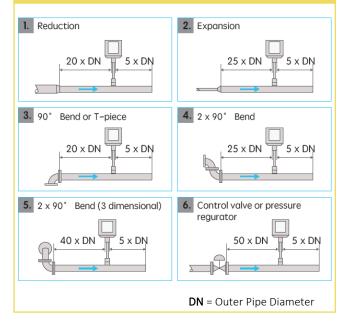


Thermal Mass Flow Meter Quick Installation Guide



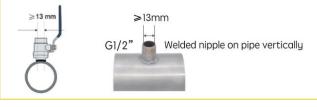




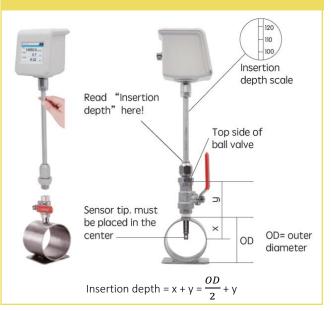
3 Insertion Requirements

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

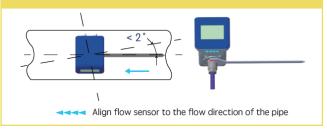
- The ball valve inner thread must be G1/2"
- The diameter of the hole must be ≥13mm, otherwise the shaft can not be inserted



4 Install sensor tip in the centre of the pipe



5 Maximum Angle Deviation of Installation



Electrical Connection

6

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



7 Pin Assignment of M12 Connector

	Connector B:
	Pin1: 20mA+
	Pin2: 20mA-
	Pin3: Pulse
3 4	Pin4: Pulse
	Pin5: N/A

Please turn over



Thermal Mass 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 ☆|0|Ê|| measurement (in mm). Press the arrow button 🔄 to save your settings and return to the previous screen pipe Diameter 64.75 > Select "Unit Setting" and select your units of measure. Press the Step 4 – Unit Setting > arrow button 🔄 to save your settings and return to the previous Gas Type Air > screen ogging **Step 5** – Select "**Gas Type**" and select your gas type. Press the arrow button Scroll up or down 3 - 6 to save your settings and return to the previous screen. for more options 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	Address Baud Rate Frame / Parity / Stop B		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					