

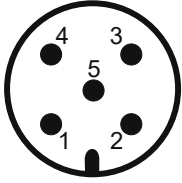
QUICK GUIDE

For manual see www.epluse.com/EE671

EE671 - HVAC Miniature Air Flow Probe

WIRING

Supply voltage: 10 - 29 V DC SELV



front view on M12 sensor plug

Plug version	Cable version	Analog output	Digital interface
1	grey	SDA (digital setup interface E2)	V+ = Supply voltage
2	brown	GND	RS485 B (D-)
3	green	AV = Analog output	GND
4	yellow	SCL (digital setup interface E2)	RS485 A (D+)
5	white	V+ = Supply voltage	n.c.

Modbus RTU

The EE671 air flow probe can be operated in a Modbus RTU network with max. 32 devices.

Factory settings: Modbus address 238, baud rate 9600, even parity, stopbits 1. The Modbus address can be customised in the register 0x00 (value margin 1 - 247 permitted).

Device address, baud rate, parity and stop bits can be set via:

1. EE-PCS, Product Configuration Software and the appropriate configuration cable HA011018.

The EE-PCS can be downloaded free of charge from www.epluse.com/Configurator.

2. Modbus protocol in the register 60001 (0x00) and 60002 (0x01).

For Modbus protocol settings see Application Note Modbus AN0103 (www.epluse.com/EE671).

Measured value	Unit	Scaling	Type	Register [DEC]	Protocol address [HEX]			
Read registers (function code 0x03 / 0x04)								
Serial number			ASCII	0001	0x00			
Software version			Binary	0009	0x08			
Sensor name			ASCII	0010	0x09			
Temperature	°C		32-bit float	²⁾ 1003	³⁾ 0026	²⁾ 0x3EA	³⁾ 0x19	
Temperature	°F		32-bit float	↓ 1005	↓ 0028	↓ 0x3EC	↓ 0x1B	
Temperature	K		32-bit float	↓ 1009	↓ 0030	↓ 0x3F0	↓ 0x1D	
Air velocity	m/s		32-bit float	1041	0032	0x410	0x1F	
Air velocity	ft/min		32-bit float	1043	0034	0x412	0x21	
Temperature ¹⁾	°C	x 100	x 100	16-bit integer	4002	0046	0xFA1	0x2D
Temperature ↓	°F	x 50	x 100	16-bit integer	4003	0047	0xFA2	0x2E
Temperature ↓	K	x 50	x 100	16-bit integer	4005	0048	0xFA4	0x2F
Air velocity	m/s	x 100	x 100	16-bit integer	4021	0049	0xFB4	0x30
Air velocity	ft/min	x 1	x 10	16-bit integer	4022	0050	0xFB5	0x31
Write registers (function code 0x06)								
Modbus address				0001	0x00			
Communication parameters				0002	0x01			

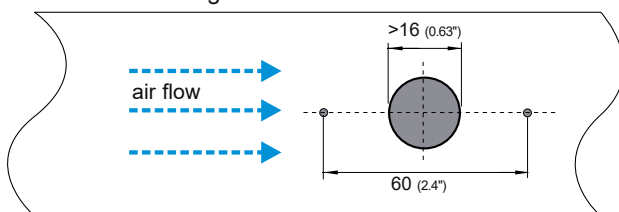
1) Please observe correct scaling for used registers

2) Measured values available in both registers

3) Registers in right column not intended for new design (0026...0050 / 0x19...0x31) } left column E+E standard registers, right column legacy registers

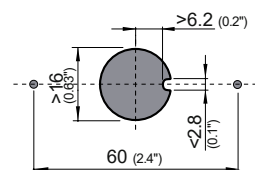
Bore hole for mounting

drilling in the wall of the duct:



optional (laser cutting):

hole in the wall of the duct:



By leaving a key notch in the hole in the wall of the duct, the flange can be mounted in the correct direction of the air stream.