

QUICK GUIDE

EE660 - Low Air Velocity Sensor with RS485 Interface

(Full User's Guide at www.epluse.com/EE660)

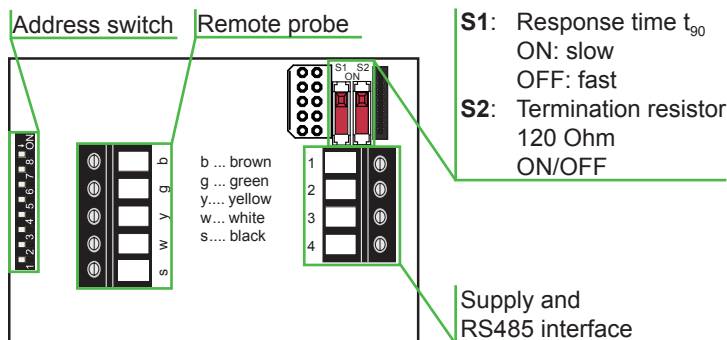
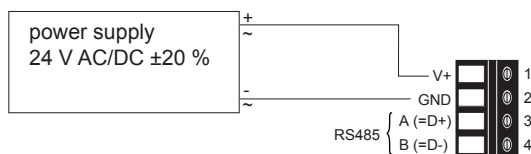
Hardware

The bus termination shall be realized with 120 Ohm resistor using the switch on the electronics board.

Very important:

For proper function make sure that the supply voltage is within the specified range (see technical data) at any time and for all devices in the bus. This is particularly relevant when using long and thin cables which can cause high voltage drop. Please note that a single EE660 requires peak current of 150 mA.

Wiring



Address Settings

Address Switch



Address setting via EE-PCS Product Configuration Software:

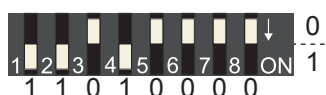
All DIP switches at position 0 → address has to be set via Product Configuration Software

Modbus (Slave device): factory setting EE660: 65 (permitted values: 1...247).

BACnet (Master device): factory setting EE660: 65 (permitted values: 0...127).

Example: Slave address is set via configuration software.

Address Switch



Address setting via DIP switch:

Modbus (Slave device): Setting the DIP switches to any other address than 0, overrules the slave address set via configuration software (permitted values: 1...247).

BACnet (Master device): Setting the DIP switch to any other address than 0, overrules the slave address set via configuration software.

BACnet Note: permitted values are 0...127. The 8th bit of the DIP switch is ignored (ID 127 = 0111 111).

To set address 0 via DIP switch, the 8th bit shall be set to 1 (ID 0 = 1000 0000).

Example: Slave address set to 11 (= 0000 1011 binary).

BACnet Setup

Please see PICS (Product Implementation Conformance Statement) - available at www.epluse.com/ee660

Modbus Setup

FLOAT (read register):			
Function code / Register number ¹⁾ [Dec]	Register address ²⁾ [HEX]	Parameter name	
31003	0x03EA	Temperature	[°C]
31005	0x03EC	Temperature	[°F]
31041	0x0410	Airflow	[m/s]
31043	0x0412	Airflow	[ft/min]

SHORT (read register)³⁾:			
Function code / Register number ¹⁾ [Dec]	Register address ²⁾ [HEX]	Parameter name	
34002	0x0FA1	Temperature*	[°C]
34003	0x0FA2	Temperature**	[°F]
34021	0x0FB4	Airflow*	[m/s]
34022	0x0FB5	Airflow***	[ft/min]

* Values are stored with the scale 1:100 (e.g.: 2550 is equivalent to 25.5 °C)

** Values are stored with the scale 1:50 (e.g.: 2550 is equivalent to 51 °F)

*** Values are stored with the scale 1:1

INFO (read register):		
Function code / Register number ¹⁾ [Dec]	Register address ²⁾ [HEX]	Parameter name
30001	0x00	Serial number (as ASCII)
30009	0x08	Firmware version

INTEGER (write register):		
Function code / Register number ¹⁾ [Dec]	Register address ²⁾ [HEX]	Parameter name
60001	0x00	Slave-ID* (modbus address)
60002	0x01	Modbus protocol settings ³⁾

* If the ID is set via DIP-Switch the response will be NAK.

1) Register number starts from 1

2) Register address starts from 0

3) For Modbus settings please see Application Note Modbus (www.epluse.com/ee660)

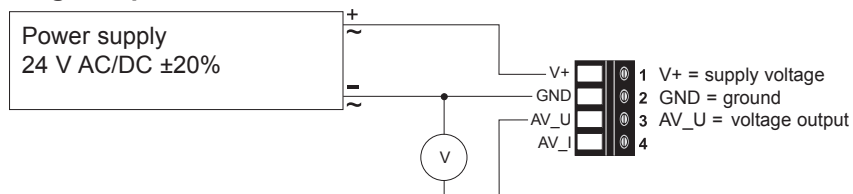
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EE660 - Low Air Velocity Sensor with Analogue Output

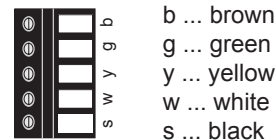
(Full User's Guide at www.epluse.com/EE660)

Wiring

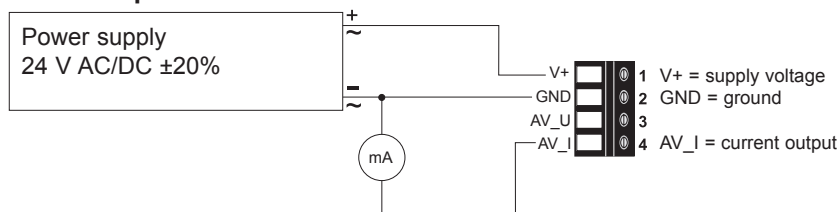
Voltage output 0-10 V



Remote probe



Current output 4-20 mA



Jumpers Settings

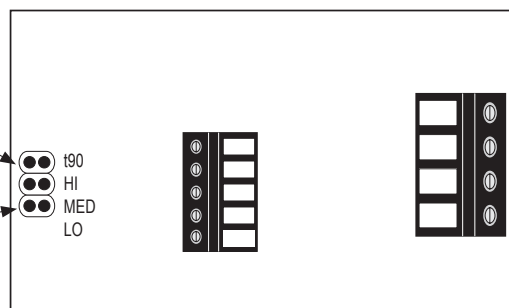
Selection of the response time t_{90}



jumper on t90
SLOW = 4 sec.
(factory setting)



no jumper
FAST = 1 sec.



Selection of the working range



jumper on HI
0...2 m/s
(factory setting)



jumper on MED
0...1.5 m/s



no jumper
0...1 m/s

For performing EE660 settings via EE-PCS Product Configuration Software (download from www.epluse.com/configurator) the working range jumper must be on HI.

INFORMATION

+43 7235 605 0 / info@epluse.com

E+E Elektronik Ges.m.b.H.
 Langwiesen 7 • A-4209 Engerwitzdorf
 Tel: +43 7235 605-0 • Fax: +43 7235 605-8
info@epluse.com • www.epluse.com

LG Linz Fn 165761 t • UID-Nr. ATU44043101
 Place of Jurisdiction: A-4020 Linz • DVR0962759

