

QUICK GUIDE

EE650 - Air Velocity Transmitters with RS485 Interface

(Full User's Guide at www.epluse.com/EE650)

Hardware

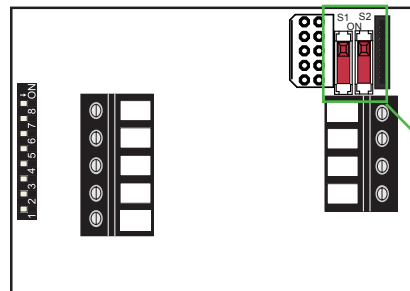
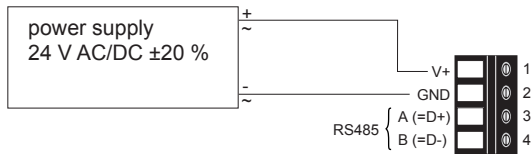
The bus termination shall be realized with 120 Ohm resistor, switch on the board.

Very important:

For proper function the power supply must be strong enough to ensure supply voltage within the specified range (see technical data) at any time and at 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 EE650 requires peak current of 150 mA.

Wiring

Digital interface



S1: Response time t_{90}
 ON: slow
 OFF: fast
S2: Termination resistor
 120 Ohm
 ON/OFF

Address Setting

Address Switch



Address setting via EE-PCS Product Configuration Software:

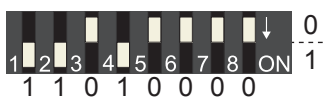
All Dip-Switches at position 0 → address has to be set via Product Configuration Software

Modbus (Slave device): factory setting EE650: 65 (permitted values: 1...247).

BACnet (Master device): factory setting EE650: 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-Switch 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 on www.epluse.com

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]

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	

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

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 protocol setting please see Application Note Modbus (www.epluse.com)

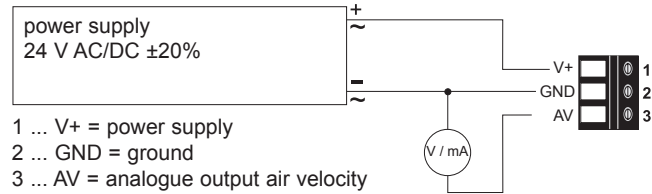
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EE650 - Air Velocity Transmitter with Analogue Output

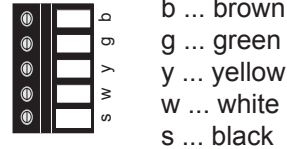
(Full User's Guide at www.epluse.com/EE650)

Wiring

Supply / Output



remote probe

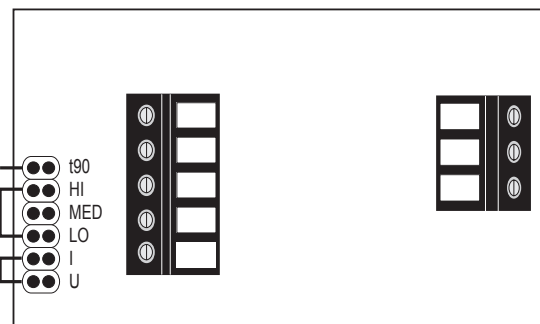


Jumper

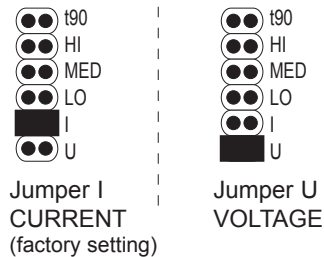
Selection of the response time t_{90}

Selection of the working range

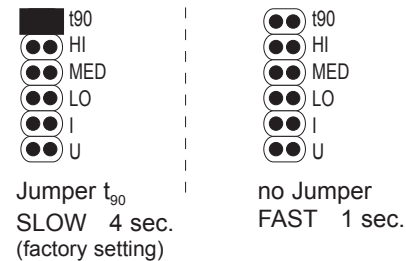
Selection of the output



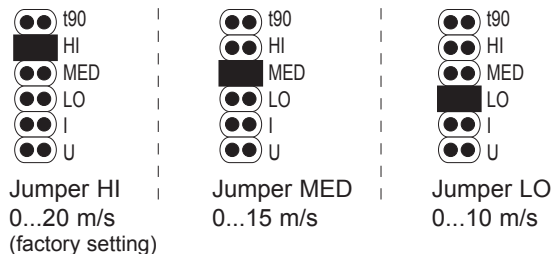
Selection of the output



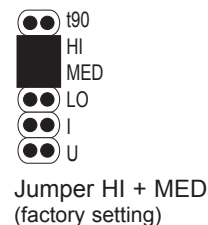
Selection of the response time t_{90}



Selection of the standard working range



Customized ranges^{*)}



^{*)} upon request, customized ranges are fixed, no further selection with jumpers possible

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