



EE ELEKTRONIK EE355 Dew Point Sensor User Guide

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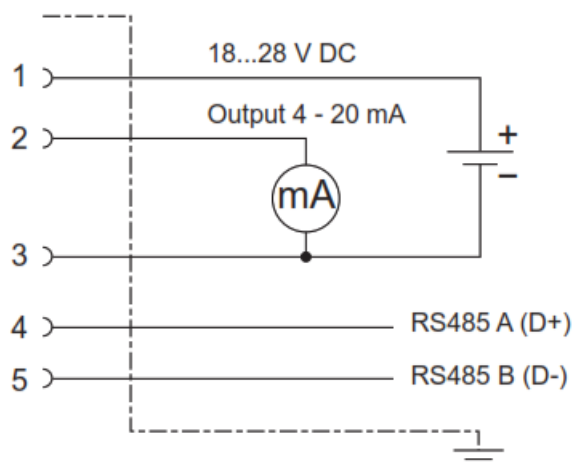
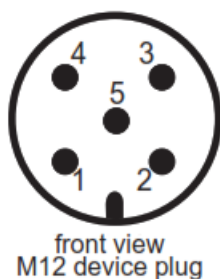
QUICK GUIDE

EE355 – Dew Point Sensor down to -60 °C Td (-76 °F Td)
(Full User Manual at www.epluse.com/ee355)

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Electrical Connection



Please note:

To meet the EMC Directive 2014/30/EU a shielded connection cable must be used.

Pin number	Function	Wire colours for accessory: – Connection cable HA010819/20/21
1	Supply voltage	brown
2	Output 4 – 20 mA	white
3	GND	blue
4	RS485 A (D+)	black
5	RS485 B (D-)	grey

Modbus Setup

Factory default setup:

Baudrate	Data	Parity	Stop bits	Modbus adress
9600	8	Even	One	243

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

- EE-PCS, Product Configuration Software and the appropriate configuration cable HA011013.
The EE-PCS can be downloaded free of charge from www.epluse.com/Configurator.
- Modbus protocol in the register 60001 (0x00) and 60002 (0x01).
See Application Note Modbus AN0103 (available on www.epluse.com/ee355)

INFO (read register):		
Parameter	Register number1) [DEC]	Protocol Address2) [HEX]
Read register: function code 0x03 / 0x04		
Serial number (as ASCII)	1	0x00
Firmware version	9	0x08
INTEGER 16 bit		
Parameter	Register number1) [DEC]	Protocol Address2) [HEX]
Write register: function code 0x06		
Modbus address (Slave ID)	1	0x00
Modbus protocol settings3)	2	0x01

1. Register number starts from 1.
2. Protocol address starts from 0.
3. For Modbus protocol settings see Application Note Modbus AN0103 (available on www.epluse.com/ee355).

Modbus Register Map

FLOAT 32 bit:				
Parameter	SI Unit	US/GB Unit	Register number1) [Dec]	Register address2) [HEX]
Read register: function code 0x03 / 0x04				
Temperature T	°C	°F	26	0x19
Relative humidity RH, Uw	%RH	%RH	28	0x1B
Water vapour partial pressure e'	mbar	psi	30	0x1D
Dew point temperature Td	°C	°F	32	0x1F
Frost point temperature Tf	°C	°F	42	0x29
Volume concentration Wv	ppm	ppm	60	0x3B
INTEGER 16 bit:				
Parameter			Register number1) [Dec]	Register address2) [HEX]
Read register: function code 0x03 / 0x04				
State of auto-calibration 0 ... normal operation 1 ... auto-calibration active			501	0x1F4
Write register: function code 0x06				
Modbus address (Slave ID)			1	0x00
RS485 data transmission			2	0x01

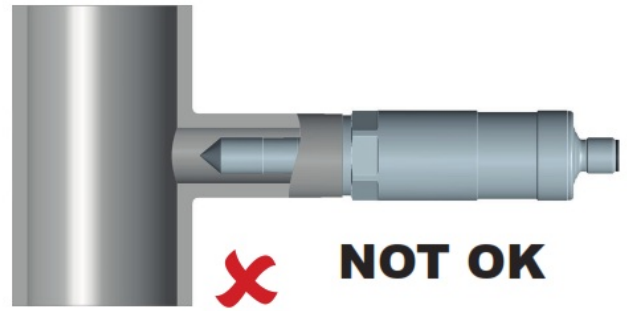
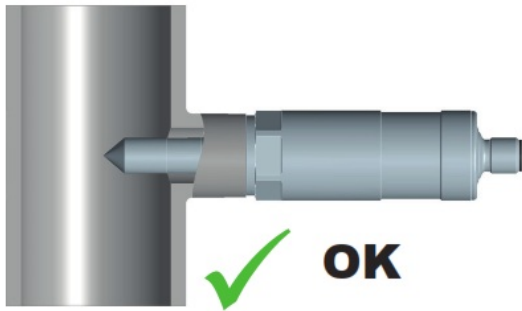
1. Register number starts from 1.
2. Register address starts from 0.

Installation



Please note:

Remove the protection cap just before installation.



INFORMATION

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Documents / Resources

	E E ELEKTRONIK EE355 Dew Point Sensor [pdf] User Guide EE355 Dew Point Sensor, EE355, Dew Point Sensor, Point Sensor, Sensor
	E E ELEKTRONIK EE355 Dew Point Sensor [pdf] User Manual EE355 Dew Point Sensor, EE355, Dew Point Sensor, Point Sensor, Sensor

References

- [E+E Sensor Technology: Humidity, CO2, Flow & Temperature Measurement](#)
- [E+E epluse.com/Configurator](http://epluse.com/Configurator)
- [E+E Dew point sensor / transmitter for industrial drying processes](#)

