

QUICK GUIDE

EE364 - Moisture in Oil Sensor

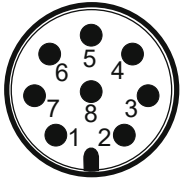
Find this document and further product information on our website at www.epluse.com/EE364.

Electrical Connection



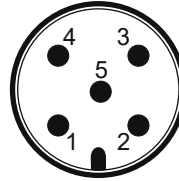
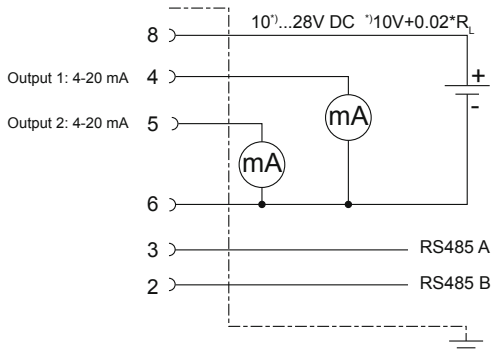
Important note:

The manufacturer cannot be held responsible for personal injuries or damage to property as a result of incorrect handling, installation, wiring, power supply and maintenance of the device.



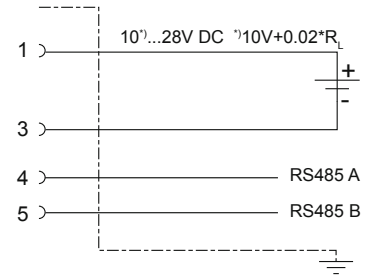
EE364

M12 device plug
front view



**EE364 OEM Style
RS485 only**

M12 device plug
front view



Please note:

In order to comply with the EMC Directive 2014/30/EU a shielded cable must be used.

Accessory HA0103xx for EE364:
connection cable 8 poles, M12x1 socket/free ends

Pin number	Wire colours	Function
1	white	NC (not connected)
2	brown	RS485 B (D-)
3	green	RS485 A (D+)
4	yellow	Analogue output 1, 4 - 20 mA
5	grey	Analogue output 2, 4 - 20 mA
6	pink	GND
7	blue	NC (not connected)
8	red	Supply voltage

Accessory HA01083xx for EE364 OEM Style:
connection cable 5 poles, M12x1 socket/free ends

Pin number	Wire colours	Function
1	brown	Supply voltage
2	white	NC (not connected)
3	blue	GND
4	black	RS485 A (D+)
5	grey	RS485 B (D-)

Setup and Adjustment

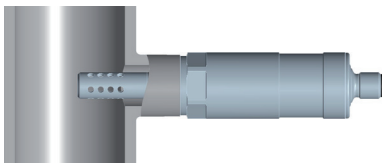
The EE364 is ready to use and does not require any user configuration. The factory setup of EE364 corresponds to the type number ordered. If needed, the user can change the factory setup or make an adjustment with the help of the optional Modbus configuration adapter and the free EE-PCS Product Configuration Software (www.epluse.com/configurator).

Installation



Please note:

Continuous oil flow allows for short response time. In such installations, place the sensor with the perforated filter at least partially within the oil.



Modbus Setup

Factory setting:

Baudrate	Data	Parity	Stop bits	Modbus address
9600	8	Even	1	243

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

- EE-PCS, Product Configuration Software and the Modbus configuration adapter HA011013.
The EE-PCS can be downloaded free of charge from www.epluse.com/configurator.
- Modbus protocol in the registers 60001 (0x00) and 60002 (0x01).
See Application Note Modbus AN0103 (available at www.epluse.com/EE364)

Modbus Register Map

FLOAT 32 bit:			
Parameter name	Unit	Register number ¹⁾ [Dec]	Register address ²⁾ [HEX]
Read register: function code 0x03 / 0x04			
Water activity aw	-	0052	0x33
Water content x	ppm	0054	0x35
Temperature T	°C/°F	0026	0x19
Oil parameter A	-	0224	0x64
Oil parameter B	-	0226	0x66
Write register: function code 0x10			
Oil parameter A ³⁾	-	0101	0x64
Oil parameter B ³⁾	-	0103	0x66
INTEGER 16 bit:			
Parameter name	Unit	Register number ¹⁾ [Dec]	Register address ²⁾ [HEX]
Write register: function code 0x06			
Modbus address	-	0001	0x00
RS485 setting	-	0002	0x01

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

3) Examples: Writing Parameter A -2663.30005 decimal: E7 10 00 64 00 02 04 74 CD C5 26 E5 BA

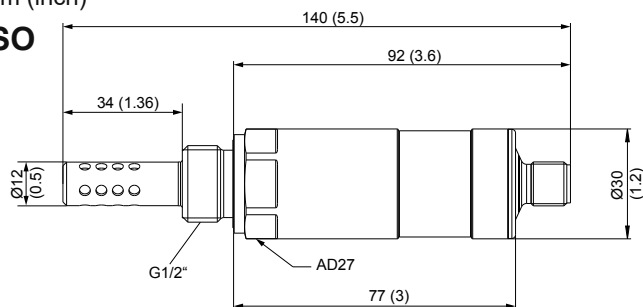
Writing Parameters A and B -1663.30005 and 7.3705 decimal: E7 10 00 64 00 04 08 E9 9A C4 CF DB 23 40 EB AB 61

If two parameters are to be uploaded, it is recommended to write them with a single command.

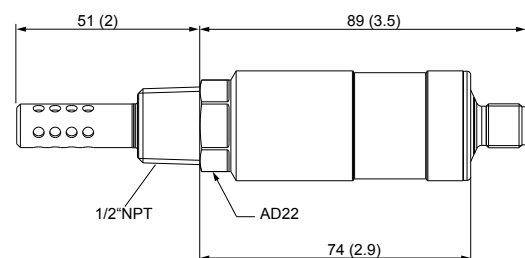
Dimensions

mm (inch)

ISO



NPT



Scope of Supply

- EE364 Sensor according to ordering guide
- Quick Guide
- Inspection certificate according to DIN EN 10204-3.1

INFORMATION

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