


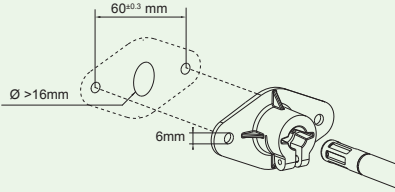

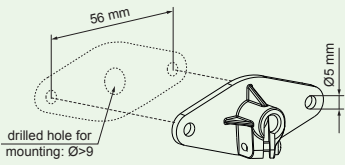

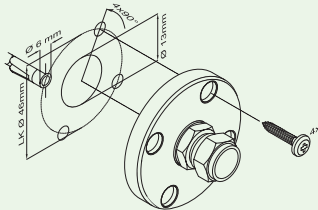
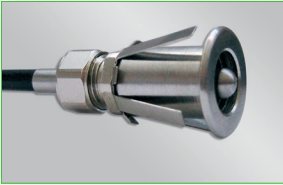
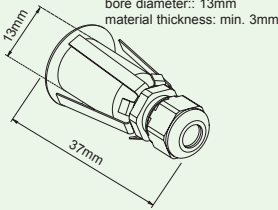

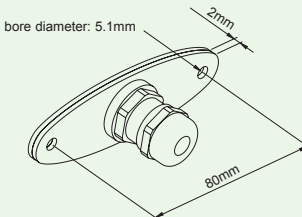

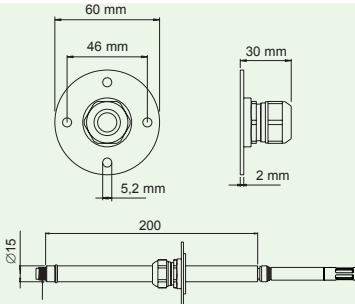
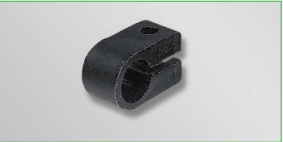
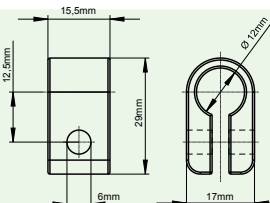
# Accessories

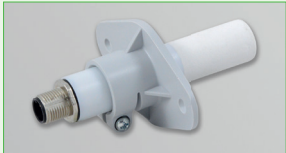
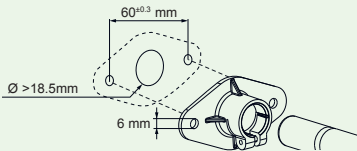
## Filter Caps for Humidity and Dewpoint Transmitters

The choice of appropriate filter cap is essential for the long term performance of the sensor in a certain application. For assistance please contact your local support - <http://www.epluse.com/en/service-support/locations-distributors/>.


FILTER NAME	CONSTRUCTION	FEATURES	APPLICATIONS	TYPE NO.
<b>MEMBRANE</b> 	Body: polycarbonate Filter: PTFE membrane Pores size: 1µm Length: 34mm (1.34")	Very good protection against fine dust T range: -40...80°C (-40...176°F) Response time $t_{10/90}$ : 15s	Building automation Dusty environment	HA010101
<b>STAINLESS STEEL SINTERED</b> 	Material: sintered stainless steel Pores size: 10µm Length: 33mm (1.30")	For high mechanical stress and strong pollution T range: -40...180°C (-40...356°F) Response time $t_{10/90}$ : 30s	Industrial process control Agriculture Life stock barns Unsuitable for condensing environment	HA010103 (for plastic probes)  HA010117 (for metal probes)
<b>PTFE</b> 	Material: PTFE sintered Pores size: 50µm Length: 33mm (1.30")	For very dirty, oily environment T range: -40...180°C (-40...356°F) Response time $t_{10/90}$ : 14s	Industrial process control Chemical industry Very polluted environment Unsuitable for condensing environment	HA010105
<b>METAL GRID</b> 	Body: polycarbonate Filter: stainless steel wire mesh Pores size: 30µm Length: 33mm (1.30")	For low mechanical stress and low pollution level For high RH / condensing environment T range: -40...120°C (-40...248°F) Response time $t_{10/90}$ : 15s	Climate control Dryers and humidifiers HVAC	HA010106
<b>STAINLESS STEEL GRID</b> 	Body: stainless steel Filter: stainless steel wire mesh Pores size: 30µm Length: 39mm (1.54")	For average mechanical stress and low pollution level For high RH / condensing environment T range: -40...180°C (-40...356°F) Response time $t_{10/90}$ : 15s	Industrial process control Clean rooms	HA010109
<b>H<sub>2</sub>O<sub>2</sub></b> 	Material: PTFE sintered Pores size: 50µm Length: 33mm (1.30")	Catalytic filter for H <sub>2</sub> O <sub>2</sub> environment T range: -40...180°C (-40...356°F) Response time $t_{10/90}$ : 14s	Pharmaceutical Biotech Sterilization with H <sub>2</sub> O <sub>2</sub>	HA010115
<b>PTFE STAINLESS STEEL</b> 	Body: stainless steel Filter: PTFE membrane, replaceable Pores size: 2µm Length: 39mm (1.54")	For average mechanical stress and high pollution levels T range: -40...180°C (-40...356°F) Response time $t_{10/90}$ : 14s Water ingress pressure > 0.5bar	For EE33-J and EE33-K in: Meteorology Continuous high humidity Condensing environment	HA010114: complete filter  HA010114ME: PTFE membrane
<b>METAL GRID FOR EE08</b> 	Body: polycarbonate Filter: stainless steel wire mesh Pores size: 30µm Length: 25mm (1")	For low mechanical stress Low pollution level For high RH / condensing environment T range: -40...120°C (-40...248°F) Response time $t_{10/90}$ : 15s	Meteorology Climate control	HA010113
<b>STAINLESS STEEL</b> 	Material: stainless steel Openings: ø3mm Length: 32mm (1.26")	For moisture in oil transmitters and Oilport 30 handheld	Hydraulic, lubrication and isolation oil monitoring	HA010110

## Mounting Flanges


NAME	SUITABLE FOR	DIMENSIONS (in mm)	ORDER CODE
Plastic mounting flange 12mm (0.47") 	EE650, EE660, EE160, EE210 EE850  EE671, EE060, EE061  max. temperature: 60°C (140°F)		HA010202 (light grey)  HA010214 (black)
Plastic mounting flange 6mm (0.24") 	EE431 EE150		HA011101
Stainless steel mounting flange 12mm (0.47") 	EE23, EE31, EE33		HA010201
Stainless steel mounting flange 5mm (0.2") 	EE23 - model H		HA010208
Stainless steel mounting flange 8mm (0.3") 	EE75 EE33-MFTJ (temperature probe)		HA010207
Duct mounting kit 	EE07, EE071 EE220		HA010209
Wall mounting clip Ø12mm (0.47") 	For all probes with Ø12mm (0.47") -35...105°C (-31...221°F)		HA010211

NAME	SUITABLE FOR	DIMENSIONS (in mm)	ORDER CODE
Plastic mounting flange Ø18.5mm (0.73") 	EE871		HA010212

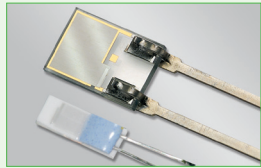
## LC Displays

NAME	SUITABLE FOR	ORDER CODE
LC display + cover 	EE220 metal polycarbonate EE23 metal polycarbonate EE31, EE35, EE36 metal polycarbonate EE33 metal	D07M D07P D03M D03P D05M D05P D05M

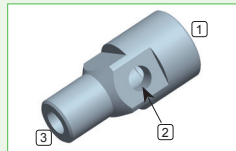
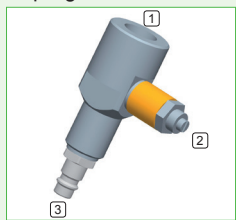
## Power Supply Unit

NAME	DESCRIPTION	SUITABLE FOR	ORDER CODE
Power supply adapter 	External power supply suitable for Europe / US / UK / Korea / China  input: 100-240V AC / 50-60Hz 0.5A output: 24V / 0.625A	HVAC and industrial transmitters	V03

## Replacement Sensors


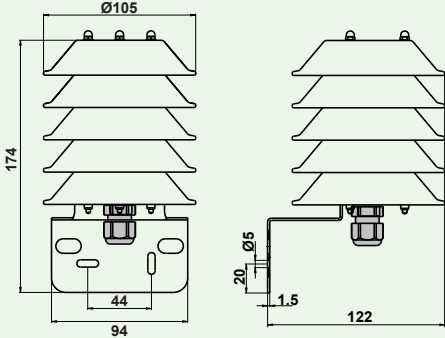

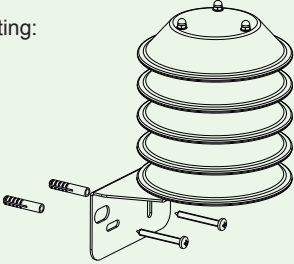
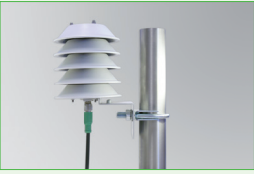
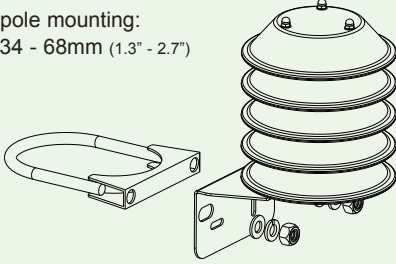
NAME	DESCRIPTION	SUITABLE FOR	ORDER CODE
Replacement sensors 	Replacement humidity sensor  Replacement temperature sensor	EE23, EE31	FE09 FE09-HC01 (with coating)  TE38

## Sampling Cell

NAME	DESCRIPTION	SUITABLE FOR	ORDER CODE
Basic Sampling Cell 	For integration into an existing or self-constructed sampling system. Pressure range: 0...64 bar (0...928 psi)  ISO        NPT 1 = G 1/2"    1/2" 2 = G 1/4"    1/4" 3 = G 1/4"    1/4"	EE371, EE375 EE354, EE355	ISO: HA050103 NPT: HA050105
Sampling Cell with Quick Connector 	For use in compressed air lines, quick-connector sui- table for standard compressed air connections, the cell can be fitted and removed without interrupting the process, the flow of gas can be adjusted using a bleed screw. Pressure range: 0...10 bar (0...145 psi)  1 = G 1/2" ISO 2 = Bleed screw 3 = Quick connector DN 7.2	EE371, EE375 EE354, EE355	HA050102

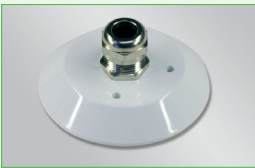
## Radiation Protection Shield

For outdoor applications the transmitters shall be equipped with radiation shield. This causes a forced ventilation which largely prevents overheating of the sensing probe in the sun and thus a distortion of the measured values. All radiation shields are suitable for wall and pole mounting.


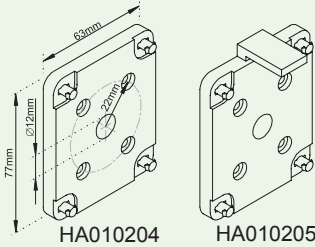

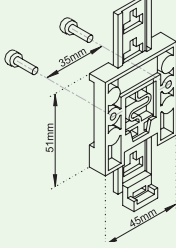

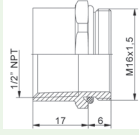

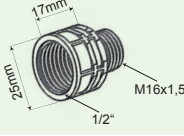

NAME	SUITABLE FOR	DIMENSIONS / MOUNTING	ORDER CODE
Radiation shield for EE210 	EE210-Outdoor	Example: HA010506 	HA010501
Radiation shield with fixed clamping ring (M20x1.5) for probes with Ø12mm (0.47") 	EE23, EE31, EE210 with remote sensing probe  EE060, EE061 EE07, EE071 EE08 EE33-J (RH-Sensor)	mounting options:  - wall mounting: 	HA010502
Radiation shield with screw-in thread (M16x1.5) cable gland for probes with Ø6mm (0.24") 	EE33-J (T-Sensor)	- pole mounting: 34 - 68mm (1.3" - 2.7") 	HA010506

## Dripping Water Protection


In applications with high humidity and condensation or for outdoor use, sensor probes should be protected against dripping water.

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Dripping water protection cap 	All sensor probes with Ø12mm (0.47")	Screw connection for probe fixation Ø85 mm (3.35")	HA010503

## Mounting and Connecting Aids



NAME	SUITABLE FOR	DIMENSIONS / DESCRIPTION	ORDER CODE
Snap-in mounting flange for wall and duct mounting 	EE16-T EE65, EE66	 HA010204      HA010205	for wall mounting: HA010204 for duct mounting: HA010205
Bracket for top-hat rail mounting  1) Only for plastic housing, not for metal housing	EE220, EE23, EE31, EE35, EE36 <sup>1)</sup>		HA010203
US conduit screw adapter 	Devices with cable gland M16x1.5	Adapter M16x1.5 to 1/2" NPT (US conduit fitting) 	HA011101
Conduit adapter, M16x1.5 to 1/2" 	Devices with cable gland M16x1.5	Adapter M16x1.5 to 1/2" (US conduit fitting) 	HA011110
Pressure tight screw connection 	EE33-MFTJx EE33-MFTKx	For probes with Ø12mm (0.47") and Ø6mm (0.24")  Probe assembly up to 20bar (300psi)	HA011102: 1/2"ISO, probe: Ø12mm (0.47") HA011103: 1/2"NPT, probe: Ø12mm (0.47") HA011104: 1/2"ISO, probe: Ø6mm (0.24") HA011105: 1/2"NPT, probe: Ø6mm (0.24")

## Reference Probes

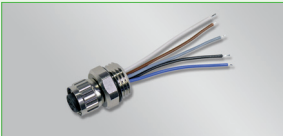
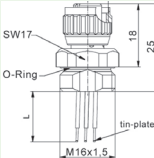
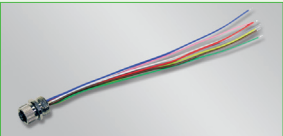
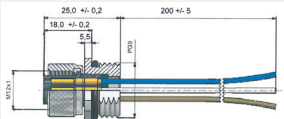



NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Reference probe 	EE220	EE07 probes with defined measuring values to check the digital/analogue conversion of the EE220 basic unit (with test report)  probe 1: 90% RH / 5°C (41°F) probe 2: 10% RH / 45°C (113°F)	HA010403

## Interface Convertors and Interface Cables

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
RS232 to RS485 	EE31, EE33 with RS485 interface	<ul style="list-style-type: none"> <li>- Converter from RS232 to RS485</li> <li>- Supports AutoPro, i.e. automatic adjustment of the Baudrate from 300 bps to 115200 bps</li> <li>- Enables to control 256 data acquisition modules in a RS-485 network</li> <li>- Isolation 3000 Vrms</li> </ul>	HA010603
RS232 to USB 	Devices with RS232 interface	<ul style="list-style-type: none"> <li>- High speed converter from RS232 to USB</li> <li>- Certified: Microsoft WHQL approved</li> </ul>	HA020110
E2 to RS232 for EE07 	EE07	Converter for E2-interface to RS232, incl. software for test and data cable length: 2m (6.6ft)	HA011001
E2 to RS232 for EE03 	EE03	Converter for E2 interface to RS232, incl. software for test and data recording cable length: 2m (6.6ft)	HA011002
E2 Test and Configuration Adapter 	EE893, EE892, EE891 EE871	Connecting CO <sub>2</sub> modules and probes with E2 interface to a PC for test and configuration. inkl. Software	HA011010
E2 to RS232 for EE08 	EE08	Converter for E2-interface to RS232, incl. software für configuration, adjustment or test cable length: 2m (6.6ft)	HA011005
RS232 Interface Cable for Screw Terminals 	EE31, EE33 EE35 EE36	RS232 interface cable for connection to screw terminals on the board cable length: 2m (6.6ft)	HA010301
RS232 Interface Cable with Pin Connector 	EE31, EE33 EE35, EE371 EE36, EE381	RS232 interface cable to connect directly on the board cable length: 2m (6.6ft)	HA010304

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
RS232 Interface Cable with External Plug 	EE31, EE33, EE35, EE36	RS232 interface cable to plug into the external socket on the housing C06 cable length: 2m (6.6ft)	HA010311
Modbus Configuration Adapter 	EE071 EE871	Connecting transmitters with Modbus interface to a PC for test and configuration	HA011012
	EE354, EE355 EE364		HA011013

## Plugs / Sockets / Connecting Cables

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Flange Coupling, 5 pins 	EE060 type PM EE07, EE071 EE871	M12x1 Flange Coupling for housing assembly  L = 50mm (2") 	HA010705
Flange Coupling, 8 pins 	EE060 type PV EE08 type D	M12x1 Flange Coupling for housing assembly L = 200mm (8") 	HA010703
Mating Plug, 4 pins 	EE07, EE071 EE060 type PM EE820 EE871 HUMLOG20 E	Mating Plug  4 pins, M12x1, suitable for customer-specific assembly, IP67 (NEMA 4)	HA010707
Mating Plug, 5 pins 	EE354 EE355 EE33 - C03/C08 EE31 - C03/C08 EE23 - C03 EE35 - C03 EE36 - C03/C07 EE75 - C12/C13 EE671 type S EE77x - type Q	Mating Plug  5 pins, M12x1, suitable for customer-specific assembly, IP67 (NEMA 4)	HA010708
Mating Plug, 8 pins 	EE08 type PV EE08 type D EE820	Mating Plug  8 pins, M12x1, suitable for customer-specific assembly, IP67 (NEMA 4)	HA010704

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Connecting Cable EE220/EE244 	EE07 - EE220/EE244 EE871 - EE244	Connecting cable for remote measurement: - EE07 with EE220/EE244 - EE871 with EE244  5 pins, M12x1 plug-socket, shielded (shield connected to pin 5), PUR	HA010801 (2m / 6.6ft) HA010802 (5m / 16.4ft) HA010803 (10m / 32.8ft)
Connecting Cable, 5 pins 	LOGPROBE20- HUMLOG20 E EE060 PM EE671 type S EE354, EE355 EE771, EE772, EE776	Connecting cable for remote measurement: - LOGPROBE20 mit HUMLOG20 E - EE771, EE772, EE776 - EE060 PM  5 pins, M12x1 plug-socket, shielded, PUR	HA010816 (2m / 6.6ft) HA010817 (5m / 16.4ft) HA010818 (10m / 32.8ft)
Connecting Cable, 5 pins 	EE060 type PM EE07, EE071 EE671 type S EE354, EE355 EE820, EE871	5 pins, M12x1 socket - flying leads, shielded, PUR	HA010819 (1.5m / 4.9ft) HA010820 (5m / 16.4ft) HA010821 (10m / 32.8ft)
Connecting Cable, 8 pins 	EE06 type PV EE08 type D EE364	8 pins, M12x1 socket - flying leads, shielded, PUR	HA010322 (1.5m / 4.9ft) HA010323 (3m / 9.8ft) HA010324 (5m / 16.4ft) HA010325 (10m / 32.8ft)
Connecting Cable OMNIPOINT / OILPORT 	OMNIPOINT 30 OILPORT 30	Connecting cable for remote sensing probes  5 pins, M12x1 plug-socket, unshielded, PUR	HA010813 (2m / 6.6ft) HA010814 (5m / 16.4ft) HA010815 (10m / 32.8ft)