

# Accessories


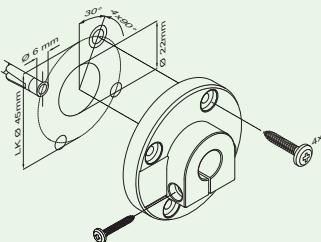

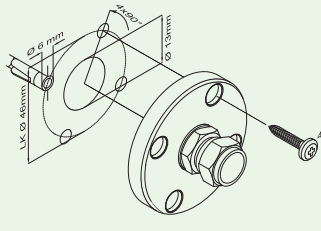

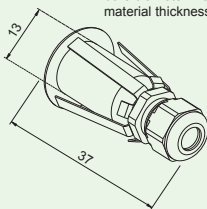

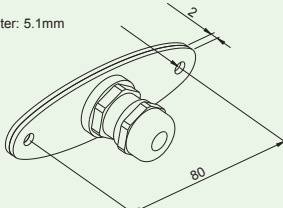

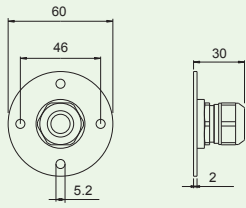

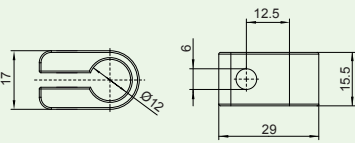
## Filter

To protect the sensor elements from pollution, the transmitters are equipped with filter caps. The right choice of filters depends on the application and is very important to maintain free operation. Please ask your local E+E distributor.

NAME	ASSEMBLY	FEATURES	TYP. APPLICATIONS	ORDER CODE
membrane filter 	material: PC special PTFE foil laminated on plastic carrier size of pores: 1 µm length: 34mm (1.34")	average filter effect temperatures up to max. 80°C (176°F) $t_{10/90}$ : 15 s	building automation	HA010101
stainless steel sintered filter 	material: sintered stainless steel size of pores: 10 µm length: 33mm (1.30")	for hard mechanical stress and strong pollutions temperatures up to 180°C (356°F) unsuitable for high humidity measurement $t_{10/90}$ : 30 s	drying processes	HA010103 HA010103EX for EE30EX series
plastic grid filter 	material: PC length: 34mm (1.34")	no filter effect - only mechanical protection quick response time $t_{10/90}$ : appr. 5 s temperatures up to 120°C (248°F)	hand-held instruments data loggers	HA010104
PTFE - filter 	material: sintered PTFE size of pores: 50 µm length: 33mm (1.30")	high chemical resistance temperatures up to 180°C (356°F) $t_{10/90}$ : 14 s	drying processes in chemical applications	HA010105
metal grid filter 	material: PC with stainless steel wire mesh size of pores: 30 µm length: 34mm (1.34")	for small mechanical stress temperatures up to 120°C (248°F) average pollution suitable for high humidity applications $t_{10/90}$ : 15 s	drying processes danger of saturation or applications with RH > 90 %	HA010106
metal grid filter 	material: stainless steel with stainless steel wire mesh size of pores: 30 µm length: 39mm (1.54")	for hard mechanical stress temperatures up to 180°C (356°F) average pollution suitable for high humidity measurement $t_{10/90}$ : 7 s	drying processes	HA010109
H <sub>2</sub> O <sub>2</sub> - filter 	material: sintered PTFE size of pores: 50 µm length: 33mm (1.30"); Ø12mm (0.47")	catalytic filter for H <sub>2</sub> O <sub>2</sub> environments $t_{10/90}$ : 14 s	sterilization with H <sub>2</sub> O <sub>2</sub>	HA010115
PTFE stainless steel filter 	base body: stainless steel PTFE filter hydrophobic length: 39mm (1.54") Ø12.5mm (0.49")	very good filter effect against environmental influences (e.g. dust, pollutant, salt) very small pore size, pressure of water intake ≥0.5 bar fast recovery after condensation interchangeable PTFE membrane temperature range: -40...150°C (-40...302°F) $t_{10/90}$ : 9s	meteorology high humidity applications with condensation	HA010114: complete filter  HA010114ME: replacement membrane



## Mounting Flange

Different mounting flanges make the installation of E+E sensor probes easier.


NAME	SUITABLE FOR	DIMENSIONS (in mm)	ORDER CODE
plastic mounting flange 12mm (0.47") 	HVAC transmitters max. temperature: 60°C (140°F)		HA010202
stainless steel mounting flange 12mm (0.47") 	EE23, EE31, EE33		HA010201
stainless steel mounting flange 5mm (0.2") 	EE23 - model H EE31 - model H	bore diameter: 13mm material thickness: min. 3mm 	HA010208
stainless steel mounting flange 8mm (0.3") 	EE75 EE33-MFTJ (temperature probe)	bore diameter: 5.1mm 	HA010207
duct mounting kit for EE22/EE07 	EE07		HA010209
wall mounting clip Ø12mm (0.47") 	for all probes with Ø12mm (0.47") -35...105°C (-31...221°F)		HA010211

## LC Display

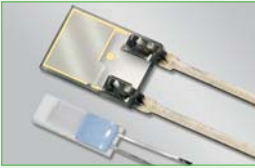
For on site reading various versions are adjustable with a display.

NAME	SUITABLE FOR	ORDER CODE
LC display + cover 	EE30EX	D01
LC display + cover 	EE22 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 unit 	external plug power supply input: 100 - 240V AC 50-60Hz / 180mA output: 18V DC / 330mA	HVAC and industrial transmitters	V02


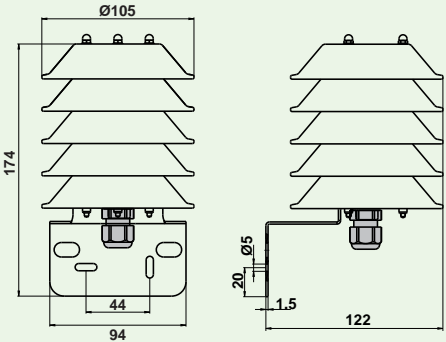

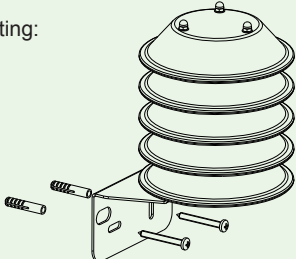
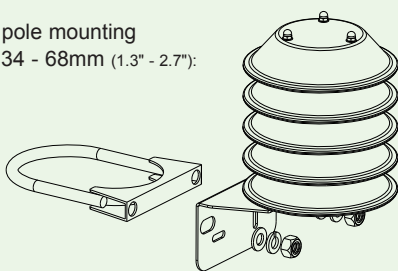

## Replacement Sensors

NAME	DESCRIPTION	SUITABLE FOR	ORDER CODE
replacement sensors 	replacement humidity sensor with sensor data replacement humidity sensor without sensor data replacement temperature sensor	EE31, EE30EX EE23	FE10 FE10-HC01 (with coating) FE09 FE09-HC01 (with coating) TE38


## Accessories

## Radiation Shield

For outdoor applications the transmitters must be equipped with a 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 mounting and pole mounting.


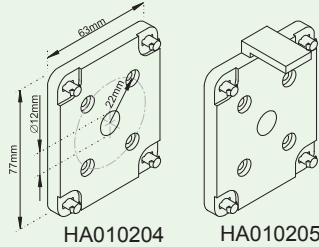

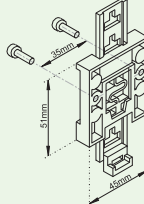
NAME	SUITABLE FOR	DIMENSIONS / MOUNTING	ORDER CODE
radiation shield for EE21 	EE21-xA2x	example: HA010506 	HA010501
radiation shield with clamping ring Ø 12mm 	EE23/31 with remote sensing probe EE06 EE07 EE33-J (T-Sensor)	mounting options: - wall mounting:  - pole mounting 34 - 68mm (1.3" - 2.7"): 	HA010502
radiation shield with thread 	EE08 EE33-J (T-Sensor)		HA010506

## Dripping Water Protection

NAME	DESCRIPTION	SUITABLE FOR	ORDER CODE
dripping water protection 	Ø 85mm (3.35")	all sensor probes Ø12mm (0.47")	HA010503


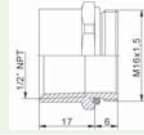

## Snap in

For quick and easy installation and deinstallation.



NAME	SUITABLE FOR	DIMENSIONS	ORDER CODE
snap in - mounting flange for wall and duct mounting 	EE14, EE16 EE21 EE65, EE66		for wall mounting: HA010204  for duct mounting: HA010205
bracket for installation onto mounting rails* 	EE22, EE23, EE31, EE35, EE36		HA010203

\*Note: Only for plastic housing, not for metal housing

## Screw Connection

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
adapter M16x1.5 to 1/2"NPT 	general	Adapter M16x1.5 to 1/2"NPT (US conduit fitting) 	HA011101
pressure tight screw connection 	EE33-MFTKx, EE33-MFTJx	for pressure tight probe assembly up to 20bar (300psi)	HA011102: 1/2"ISO Ø12mm (0.47") HA011103: 1/2"NPT Ø12mm (0.47") HA011104: 1/2"ISO Ø6mm (0.24") HA011105: 1/2"NPT Ø6mm (0.24")

## Reference Probe


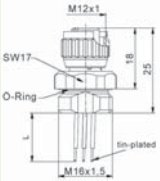





NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
reference probe 	EE22	EE07 probes with defined measuring values to check the digital/ analogue conversion of the EE22 basic unit (with test report)  Probe 1: 90% RH / 5°C (41°F) Probe 2: 10% RH / 45°C (113°F)	HA010403
replacement probe EE07 	EE22	The calibration data are stored in the probe. A fast replacement of the probe without readjustment of the evaluation electronics is guaranteed.	housing stainless steel: EE07-MFT9 housing PC / membrane filter: EE07-PFT1 housing PC / metal grid filter: EE07-PFT6 for coating of sensors add HC01

## Accessories

## Interface Convertor / Interface Cable

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 RS485 network</li> <li>- isolation 3000 Vrms</li> </ul>	HA010603
RS232 to USB 	general	<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 recording 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 to RS232 for EE08 	EE08	converter for E2-interface to RS232, incl. software for configuration, adjustment or test cable length: 2m (6.6ft)	HA011005
RS232 Interface Cable for Screw Terminals 	EE31, EE30Ex, 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, EE30Ex, EE33, EE35, EE36, EE371, EE381	RS232 interface cable to connect directly on the board cable length: 2m (6.6ft)	HA010304
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

**Plugs / Sockets / Connecting Cables**

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
M12x1 Flange Coupling for EE07 	EE07	 I = 50mm (2")	HA010705
M12x1 Flange Coupling for EE08 	EE08 type D	flange coupling for housing assembly, I = 200mm (8") 	HA010703
M12x1 Flange Receptacle Configurable for EE08 	EE08 type D	8 pole flange receptacle configurable, IP67 (NEMA 4) 	HA010704
Connecting Cable EE22/EE07 	EE07, EE22	connecting cable – sensing probe EE07 with EE22 transmitter	length 2m (6.6ft): HA010801 length 5m (16.4ft): HA010802 length 10m (32.8ft): HA010803
Connecting Cable EE07 	EE07	connecting cable with flying leads for sensing probe EE07	length 1m (3.3ft): HA010809 length 2m (6.6ft): HA010810 length 5m (16.4ft): HA010811 length 10m (32.8ft): HA010812
Connecting Cable EE08 	EE08 type D	connecting cable with flying leads for sensing probe EE08 type D	length 1.5m (4.9ft): HA010322 length 3m (9.8ft): HA010323 length 5m (16.4ft): HA010324 length 10m (32.8ft): HA010325
Connecting Cable VELOPORT/ OMNIPOINT 20 	OMNIPOINT 20	connecting cable hand-held - probe	length 2m (6.6ft): HA010813 length 5m (16.4ft): HA010814 length 10m (32.8ft): HA010815