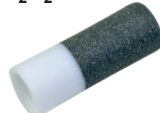


Accessories

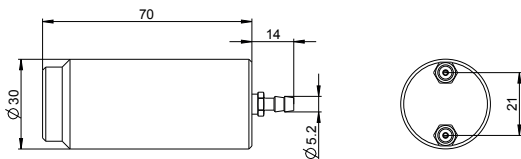
FILTER CAPS FOR HUMIDITY AND DEWPOINT SENSORS WITH PROBE Ø12 mm (0.47")

The right choice of appropriate filter cap is essential for best long term performance in the application.

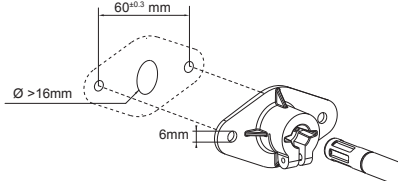
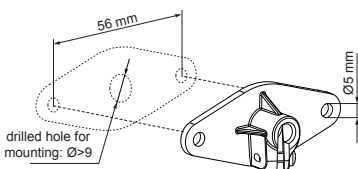
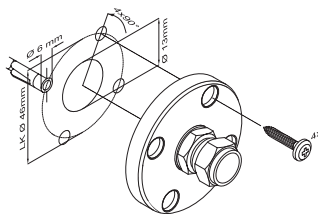
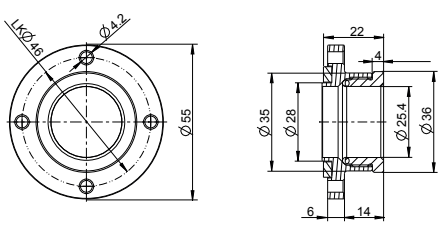
For assistance please contact the E+E representative - www.epluse.com/en/service-support/locations-distributors/.

FILTER NAME	CONSTRUCTION	FEATURES	APPLICATIONS	ORDER CODE
Membrane 	Body: polycarbonate Filter: PTFE membrane Pores size: 1 µm Length: 34 mm (1.34")	• Very good protection against fine dust • T range: -40...80 °C (-40...176 °F) • Response time t10/90: 15 s	• Building automation • Dusty environment	HA010101 (light grey) HA010118 (black)
Stainless steel sintered 	Material: sintered stainless steel Pores size: 10 µm Length: 33 mm (1.30")	• For high mechanical stress and strong pollution • T range: -40...180 °C (-40...356 °F) • Response time t10/90: 30 s	• Industrial process control • Agriculture • Life stock barns	HA010103 (for plastic probes) HA010117 (for metal probes)
PTFE 	Material: PTFE sintered Pores size: 50 µm Length: 33 mm (1.30")	• For very dirty, oily environment • T range: -40...180 °C (-40...356 °F) • Response time t10/90: 14 s	• Industrial process control • Chemical industry • Very polluted environment	HA010105
Metal grid 	Body: polycarbonate Filter: stainless steel wire mesh Pores size: 30 µm Length: 33 mm (1.30")	• For high RH / condensing environment, • low mechanical stress and • low pollution level • T range: -40...120 °C (-40...248 °F) • Response time t10/90: 15 s	• Climate control • Dryers and humidifiers • HVAC	HA010106 (light grey) HA010119 (black)
Stainless steel grid 	Body: stainless steel Filter: stainless steel wire mesh Pores size: 30 µm Length: 39 mm (1.54")	• For high RH / condensing environment, • average mechanical stress and • low pollution level • T range: -40...180 °C (-40...356 °F) • Response time t10/90: 15 s	• Industrial process control • Clean rooms	HA010109
H₂O₂ 	Material: PTFE sintered Pores size: 50 µm Length: 33 mm (1.30")	• Catalytic filter for H₂O₂ environment • T range: -40...180 °C (-40...356 °F) • Response time t10/90: 14 s	• Pharma • Biotech • Sterilization with H₂O₂	HA010115
PTFE stainless steel 	Body: stainless steel Filter: PTFE membrane, replaceable Pores size: 2 µm Length: 39 mm (1.54")	• For high RH / condensing environment, • high pollution levels • T range: -40...180 °C (-40...356 °F) • Response time t10/90: 14 s • Water ingress pressure > 0.5 bar	For EE33-J and EE33-K in: • Meteorology, outdoor • Climate control	HA010114 (complete filter) HA010114ME (PTFE membrane)
Metal grid for EE08 	Body: polycarbonate Filter: stainless steel wire mesh Pores size: 30 µm Length: 25 mm (1")	• For high RH / condensing environment, • low mechanical stress, • low pollution level • T range: -40...120 °C (-40...248 °F) • Response time t10/90: 15 s	• Meteorology, outdoor • Climate control	HA010113
Stainless steel 	Material: stainless steel Openings: ø3 mm Length: 32 mm (1.26")	• For moisture in oil measuring devices	• Hydraulic, lubrication and isolation oil monitoring	HA010110

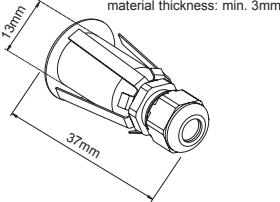
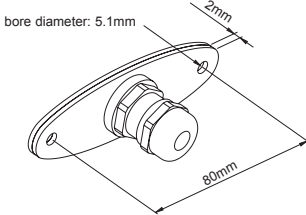
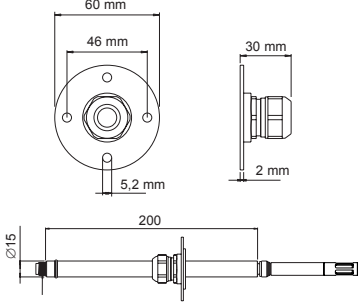
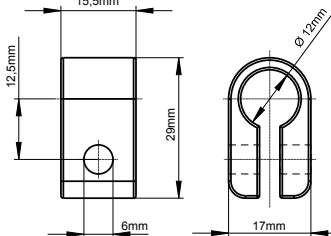
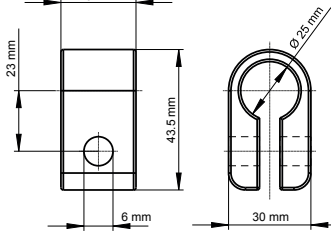
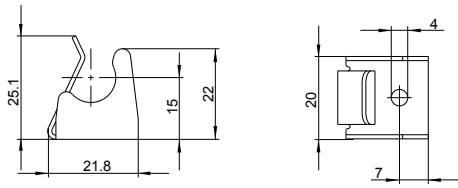
FILTER CAPS FOR EE872 CO₂ PROBES Ø25 mm (0.98")

NAME	CONSTRUCTION	FEATURES	APPLICATIONS	ORDER CODE
PTFE 	Material: PTFE sintered Pores size: 50 µm Length: 62 mm (2.44")	- Standard filter for CO₂ probes - T range: -40...60 °C (-40...140 °F)	- Greenhouses - Agriculture - Outdoor CO₂ monitoring	HA010123
H₂O₂ 	Material: PTFE sintered Pores size: 50 µm Length: 62 mm (2.44")	- Catalytic filter for H₂O₂ environment - T range: -40...60 °C (-40...140 °F)	- Pharma - Biotech - Sterilization with H₂O₂	HA010124
Calibration adapter / Protection cap 	Material: Polycarbonate	Dimensions in mm 		HA010785

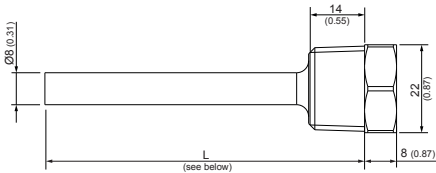
MOUNTING FLANGES

NAME	SUITABLE FOR	DIMENSIONS in mm	ORDER CODE
Plastic flange Ø12 mm (0.47") 	EE072 EE160 EE210 EE576 EE650 EE660 EE850 EE8915 EE060 EE061 EE671		HA010202 (light grey)
Plastic flange Ø6 mm (0.24") 	EE074 EE150 EE431		HA401101
Stainless steel flange Ø12 mm (0.47") 	EE072 EE074 EE23 EE33 EE310 EE1900 EE1950		HA010201
Stainless steel flange Ø25 mm (0.98") 	EE872		HA010226

MOUNTING FLANGES

NAME	SUITABLE FOR	DIMENSIONS in mm	ORDER CODE
Stainless steel flange Ø5 mm (0.2") 	EE23 - model T6	 bore diameter: 13 mm material thickness: min. 3 mm	HA010208
Stainless steel flange Ø8 mm (0.3") 	EE074 EE33-MFTJ (temperature probe) EE75	 bore diameter: 5.1 mm	HA010207
Duct mounting kit 	EE07		HA010209
Wall mounting clip Ø12 mm (0.47") 	All probes Ø12 mm (0.47") T range: -40...60 °C (-40...140 °F) Material: LDPE		HA010211
Wall mounting clip Ø25 mm (0.98") 	EE872 T range: -40...60 °C (-40...140 °F) Material: LDPE		HA010227
Stainless steel wall mounting clip Ø12 mm (0.47") 	EE23 EE33 EE310 EE1900 EE1950	Material: stainless steel 1.4404 	HA010225

MOUNTING FLANGES

NAME	SUITABLE FOR	DIMENSIONS in mm	ORDER CODE																																				
Immersion well	EE074 EE431 EE461 EE462 EE471																																						
		<table> <tr> <th>length (L)</th><th></th><th>R$\frac{1}{2}$" ISO</th><th>$\frac{1}{2}$" NPT</th></tr> <tr> <td>50 mm (1.97")</td><td>brass</td><td>HA400101</td><td>HA400111</td></tr> <tr> <td></td><td>stainless steel</td><td>HA400201</td><td>HA400211</td></tr> <tr> <td>100 mm (3.94")</td><td>brass</td><td>HA400104</td><td>HA400114</td></tr> <tr> <td></td><td>stainless steel</td><td>HA400204</td><td>HA400214</td></tr> <tr> <td>135 mm (1.97")</td><td>brass</td><td>HA400102</td><td>HA400112</td></tr> <tr> <td></td><td>stainless steel</td><td>HA400202</td><td>HA400212</td></tr> <tr> <td>285 mm (11.22")</td><td>brass</td><td>HA400103</td><td>HA400113</td></tr> <tr> <td></td><td>stainless steel</td><td>HA400203</td><td>HA400213</td></tr> </table>	length (L)		R $\frac{1}{2}$ " ISO	$\frac{1}{2}$ " NPT	50 mm (1.97")	brass	HA400101	HA400111		stainless steel	HA400201	HA400211	100 mm (3.94")	brass	HA400104	HA400114		stainless steel	HA400204	HA400214	135 mm (1.97")	brass	HA400102	HA400112		stainless steel	HA400202	HA400212	285 mm (11.22")	brass	HA400103	HA400113		stainless steel	HA400203	HA400213	
length (L)		R $\frac{1}{2}$ " ISO	$\frac{1}{2}$ " NPT																																				
50 mm (1.97")	brass	HA400101	HA400111																																				
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135 mm (1.97")	brass	HA400102	HA400112																																				
	stainless steel	HA400202	HA400212																																				
285 mm (11.22")	brass	HA400103	HA400113																																				
	stainless steel	HA400203	HA400213																																				

LC DISPLAYS

NAME	SUITABLE FOR	ORDER CODE
LC display + cover	EE23 metal polycarbonate	D03M-EE23 D03P-EE23
	EE23-T5 metal polycarbonate	D05M-EE23T5 D05P-EE23T5
	EE33 metal	D05M-EE33
	EE220 metal polycarbonate	D07M-EE220 D07P-EE220

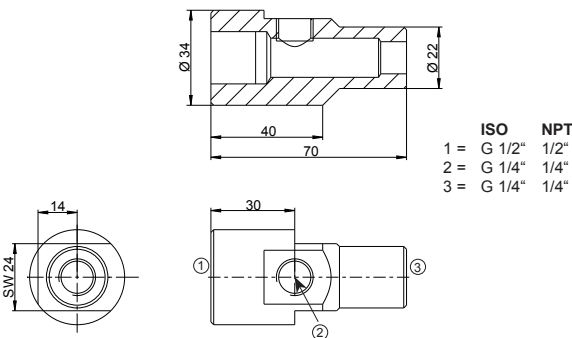
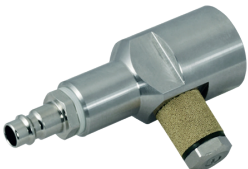
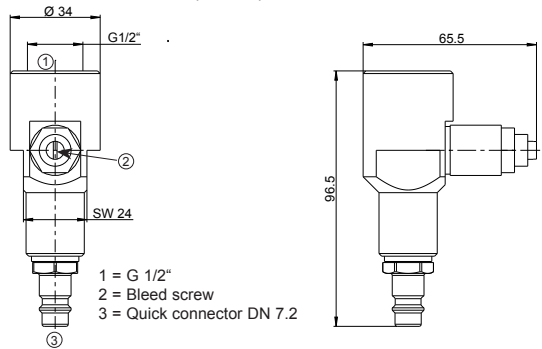
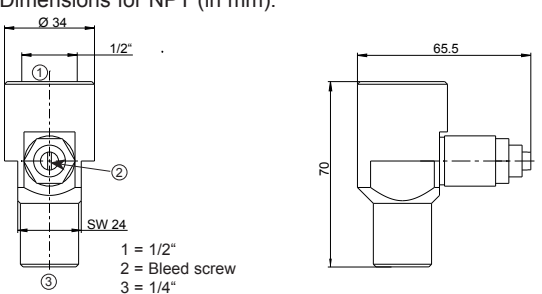
POWER SUPPLY UNIT

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Power supply adapter	All E+E devices with 24 V DC supply max: 0.625 A	External power supply 100-240 V AC / 50-60 Hz 0.5 A Suitable for Europe / US / UK / Korea / China	V03

REPLACEMENT SENSING ELEMENTS

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Replacement sensing elements	EE23 EE310	Replacement humidity sensing elements	FE09 FE09-HC01 (with proprietary coating)
		Replacement temperature sensing elements	TE38

SAMPLING CELLS

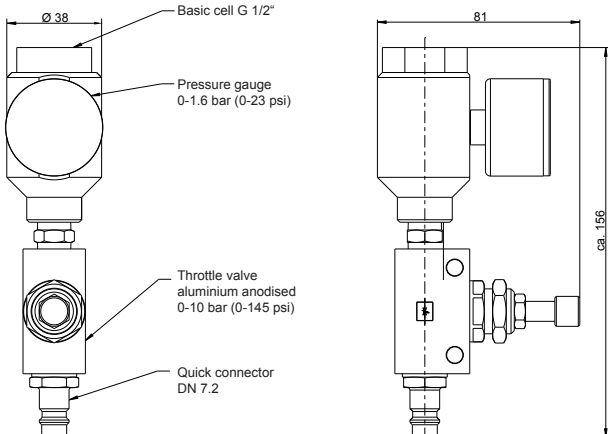
NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Basic sampling cell 	EE354 EE355 EE371	The basic sampling cell is designed for a pressure range from 0...64 bar (0...928 psi). It allows a simple integration of a dew point sensor into a self-constructed sampling system. Dimensions in mm:  ISO NPT 1 = G 1/2" 1/2" 2 = G 1/4" 1/4" 3 = G 1/4" 1/4"	ISO: HA050103 NPT: HA050105
ISO sampling cell 	EE354 EE355 EE371	The sampling cell is optimized for compressed air lines with pressure range 0...10 bar (0...145 psi). The flow of air can be adjusted with the bleed screw. The G 1/2" ISO version features a quick connector suitable for standard DN7.2 air connection, which allows for the sampling cell to be mounted and removed without process interruption. Dimensions for ISO (in mm):  1 = G 1/2" 2 = Bleed screw 3 = Quick connector DN 7.2	ISO: HA050102
NPT sampling cell 		Dimensions for NPT (in mm):  1 = 1/2" 2 = Bleed screw 3 = 1/4"	NPT: HA050107

SAMPLING CELLS

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Sampling cell for atmospheric dew point	EE354 EE355 EE371	The sampling cell is optimized for measuring the atmospheric dew point temperature in compressed air lines with pressure range 0...10 bar (0...145 psi). It features a quick connector suitable for standard DN7.2 air connection, which allows for the sampling cell to be mounted and removed without process interruption. The pressure in the sampling cell could be zeroed by the needle valve.	HA050106



Dimensions in mm:



Technical drawing labels:

- Ø 38
- Basic cell G 1/2"
- Pressure gauge 0-1.6 bar (0-23 psi)
- Throttle valve aluminium anodised 0-10 bar (0-145 psi)
- Quick connector DN 7.2
- 81
- ca. 156

DRIP 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
Drip water protection	All sensing probes with Ø12 mm (0.47")	Protection cap Ø85 mm (3.35"), fixing onto the sensing probe by cable gland.	HA010503



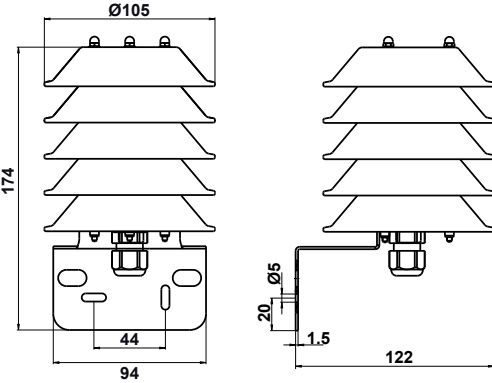
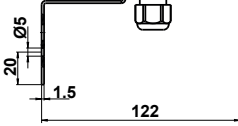
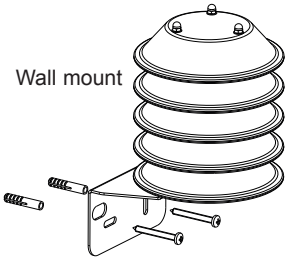
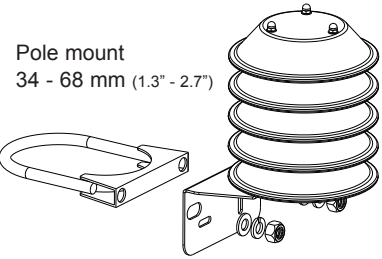
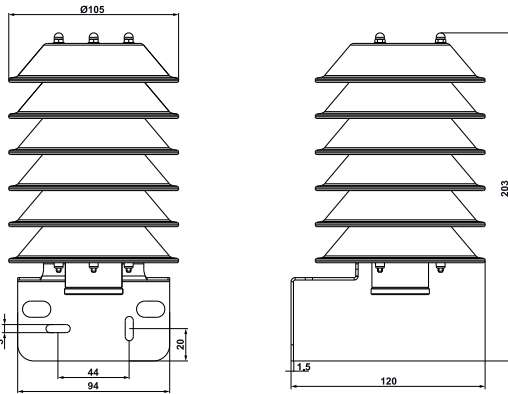
PROTECTION CAP

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Protection cap for Ø12 mm (0.47") probe	All sensing probes with Ø12 mm (0.47")	Sensing head protection during site cleaning or sterilization. T range: -40...80 °C (-40...176 °F) L: 50.4 mm (1.98") Ø: 12.5 mm (0.49")	HA010783

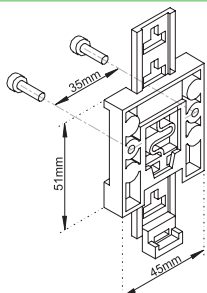
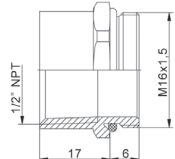
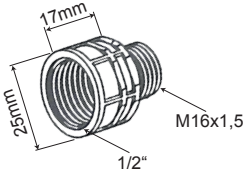
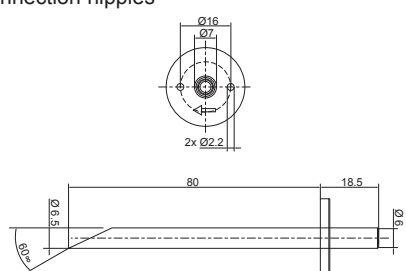


RADIATION SHIELD

For outdoor applications the measuring devices shall be equipped with a radiation shield which provides protection from rain, snow and ice. This causes also a natural ventilation which largely prevents overheating of the sensing probe in the sun and thus a distortion of the measured values. All E+E radiation shields are suitable for wall and pole mount.

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
 Radiation shield for EE210	EE210-Outdoor		HA010501
 Radiation shield with fixed clamping ring (M20x1.5) for probes with Ø12 mm (0.47")	EE07 EE08 type E EE060 EE061 EE072 EE33-J (RH probe) with remote sensing probe: EE23 EE310 EE210		HA010502
 Radiation shield with screw-in thread (M16x1.5) and additional cable gland for probes with Ø6 mm (0.24")	EE08 type D EE33-J (T probe)	• Wall mount  • Pole mount 34 - 68 mm (1.3" - 2.7") 	HA010506
 Radiation shield for EE872	EE872		HA010510
Wall mount and pole mount (see above)			

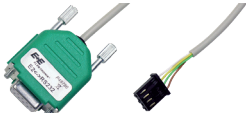
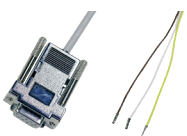
MOUNTING AND CONNECTING AIDS

NAME	SUITABLE FOR	DIMENSIONS / DESCRIPTION	ORDER CODE
Bracket for DIN rail mounting 	EE23 EE220 EE310 EE360 Only for plastic enclosure.		HA010203
Conduit adapter, stainless steel 	Devices with cable gland M16x1.5	Adapter M16x1.5 to 1/2" NPT (US conduit fitting) 	HA011101
Conduit adapter, plastic 	Devices with cable gland M16x1.5	Adapter M16x1.5 to 1/2" NPT (US conduit fitting) 	HA011110
Pressure tight feedthrough 	EE33-MFTJx EE33-MFTKx	For probes with Ø12 mm (0.47") and Ø6 mm (0.24") Probe assembly up to 20 bar (300 psi)	HA011102: 1/2" ISO, probe: Ø12 mm (0.47") HA011103: 1/2" NPT, probe: Ø12 mm (0.47") HA011104: 1/2" ISO, probe: Ø6 mm (0.24") HA011105: 1/2" NPT, probe: Ø6 mm (0.24")
Pressure connection set 	EE600 EE610	2 m (78.7") PVC hose with two ABS pressure connection nipples 	HA011304

REFERENCE PROBES

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Reference probe 	EE220	EE07 probes with fix output values for checking the EE220 basic unit (test report included). probe 1: 90 % RH / 5 °C (41 °F) probe 2: 10 % RH / 45 °C (113 °F)	HA010403

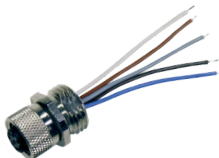
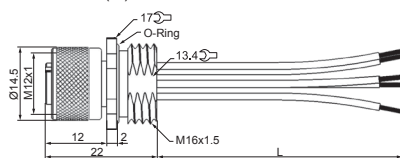
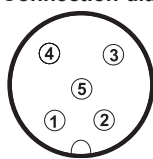
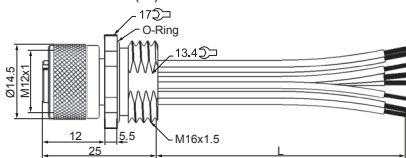
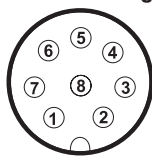
INTERFACE CABLES AND CONVERTORS

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
RS232 to USB 	E+E devices with RS232 interface	High speed converter from RS232 DB9 (male) to USB Microsoft WHQL approved	HA020110
E2 to RS232 for EE07 	EE07	E2 to RS232 converter, incl. software for test and data Connector A: M12 Connector B: DB9 (female) Cable length: 2 m (6.6 ft)	HA011001
E2 to RS232 for EE03 	EE03	E2 to RS232, incl. software for test and data recording Connector A: 4 pole wire to board connector Connector B: DB9 (female) Cable length: 2 m (6.6 ft)	HA011002
E2 Test and configuration adapter 	EE894 with E2 interface	Connecting CO ₂ modules with E2 interface to a PC for test and configuration, incl. software and supply adapter. Connector A: Test board with power supply Connector B: DB9 (female)	HA011010
E2 to RS232 for EE08 	EE08	E2 to RS232, incl. software for configuration, adjustment or test Connector A: screw terminal or M12 via connection cable Connector B: DB9 (female) Cable length: 2 m (6.6 ft)	HA011005
RS232 interface cable with free ends 	EE33	RS232 interface cable for connection to screw terminals Connector A: DB9 (female) Connector B: flying leads Cable length: 2 m (6.6ft)	HA010301
RS232 interface cable 	EE33 EE371 EE381	RS232 interface cable Connector A: DB9 (female) Connector B: 6 pol wire to board connector Cable length: 2 m (6.6 ft)	HA010304
RS232 interface 	EE33	RS232 interface cable with connector option C06 Connector A: DB9 (female) Connector B: M12 Cable length: 2 m (6.6 ft)	HA010311

INTERFACE CABLES AND CONVERTORS

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Modbus configuration adapter 	EE354	For test and configuration with a PC, incl. supply adapter.	HA011013
	EE355		
	EE364		
	EE072	Connector A: USB Connector B: M12	HA011018
	EE074		
	EE671		
	EE872		
USB configuration adapter 	EE10 digital	For test and configuration with a PC, incl. supply adapter.	HA011066
	EE160 digital		
	EE210		
	EE210-Outdoor	Connector A: USB Connector B: 10 pole wire to board connector	
	EE211		
	EE4x1 digital		
	EE600 digital		
	EE610 digital		
	EE650		
	EE660		
	EE800		
	EE820		
	EE850		
USB adapter cable 	EE1900	For test and configuration with a PC.	HA011017
	EE1950		
		Connector A: USB Connector B: 10 pole wire to board connector	

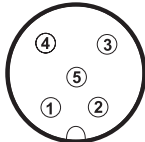
CONNECTORS

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE																
Flange coupling, 5 pole	EE07 EE060 type E9 EE072 EE074 EE872	M12x1 flange coupling L = 50 mm (2") ± 3 mm	HA010705																
																			
Connection diagram																			
	<table><tr><td>1</td><td>brown</td></tr><tr><td>2</td><td>white</td></tr><tr><td>3</td><td>blue</td></tr><tr><td>4</td><td>black</td></tr><tr><td>5</td><td>grey</td></tr></table>	1	brown	2	white	3	blue	4	black	5	grey								
1	brown																		
2	white																		
3	blue																		
4	black																		
5	grey																		
front view																			
Flange coupling, 8 pole	EE08 type D EE364	M12x1 flange coupling L = 2000 mm (2") ± 5 mm	HA010703																
																			
Connection diagram																			
	<table><tr><td>1</td><td>white</td></tr><tr><td>2</td><td>brown</td></tr><tr><td>3</td><td>green</td></tr><tr><td>4</td><td>yellow</td></tr><tr><td>5</td><td>grey</td></tr><tr><td>6</td><td>pink</td></tr><tr><td>7</td><td>blue</td></tr><tr><td>8</td><td>red</td></tr></table>	1	white	2	brown	3	green	4	yellow	5	grey	6	pink	7	blue	8	red		
1	white																		
2	brown																		
3	green																		
4	yellow																		
5	grey																		
6	pink																		
7	blue																		
8	red																		
front view																			

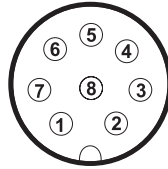
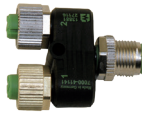
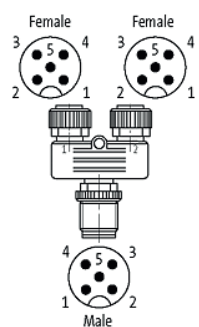
CONNECTORS

NAME	SUITABLE FOR	DESCRIPTION	ORDER CODE
Connector, 4 pole socket 	EE07 EE060 type E9 EE072 EE074 EE741 EE820 Humlog 20 E	M12x1 cable connector, 4 pole, IP67 (NEMA 4), for self assembly	HA010707
Connector, 5 pole socket 	EE23 - C03 EE33 - C03/C08 EE75 - C12/C13 EE310 - E4, E6, E12, AM3 EE354 EE355 EE360 - E4, E6, E12, AM3 EE671 type T15 EE77x - type Q EE872 EE8915	M12x1 cable connector, 5 pole, IP67 (NEMA 4), for self assembly	HA010708
Connector, 8 pole socket 	EE08 type D EE364	M12x1 cable connector, 8 pole, IP67 (NEMA 4), for self assembly	HA010704
Connector, 5 pole plug 	EE310 / EE360: E5, E6, E12	M12x1 cable connector, 5 pole, IP67 (NEMA 4), for self assembly	HA010706

CABLES

NAME	SUITABLE FOR	DIMENSIONS / DESCRIPTION	ORDER CODE										
Connection cable EE220/EE244 	EE07 with EE220 EE07 with EE244 EE244	5 pole, M12x1 plug-socket, shielded (shield connected to pin 5), PUR	HA010801 (2 m / 6.6 ft) HA010802 (5 m / 16.4 ft) HA010803 (10 m / 32.8 ft)										
Connection cable, 5 pole 	EE771 EE772 EE776 Humlog 20 E	5 pole, M12x1 plug-socket, shielded, PUR	HA010816 (2 m / 6.6 ft) HA010817 (5 m / 16.4 ft) HA010818 (10 m / 32.8 ft)										
Connection cable, 5 pole 	EE07 EE060 type E9 EE072 EE074 EE354 EE355 EE671 type T15 EE820 EE872 EE8915	5 pole, M12x1 socket - free ends, shielded, PUR Connection diagram  front view <table><tr><td>1</td><td>brown</td></tr><tr><td>2</td><td>white</td></tr><tr><td>3</td><td>blue</td></tr><tr><td>4</td><td>black</td></tr><tr><td>5</td><td>grey</td></tr></table>	1	brown	2	white	3	blue	4	black	5	grey	HA010819 (1.5 m / 4.9 ft) HA010820 (5 m / 16.4 ft) HA010821 (10 m / 32.8 ft)
1	brown												
2	white												
3	blue												
4	black												
5	grey												

CABLES

NAME	SUITABLE FOR	DIMENSIONS / DESCRIPTION	ORDER CODE																
Connection cable, 8 pole 	EE08 type D EE364	8 pole, M12x1 socket - free ends, shielded, PUR Connection diagram  front view <table data-bbox="834 445 932 658"><tr><td>1</td><td>white</td></tr><tr><td>2</td><td>brown</td></tr><tr><td>3</td><td>green</td></tr><tr><td>4</td><td>yellow</td></tr><tr><td>5</td><td>grey</td></tr><tr><td>6</td><td>pink</td></tr><tr><td>7</td><td>blue</td></tr><tr><td>8</td><td>red</td></tr></table>	1	white	2	brown	3	green	4	yellow	5	grey	6	pink	7	blue	8	red	HA010322 (1.5 m / 4.9 ft) HA010323 (3 m / 9.8 ft) HA010324 (5 m / 16.4 ft) HA010325 (10 m / 32.8 ft)
1	white																		
2	brown																		
3	green																		
4	yellow																		
5	grey																		
6	pink																		
7	blue																		
8	red																		
Connection cable Omniport / Oilport / EE100Ex 	EE100Ex-T23 Omniport 30 Oilport 30	M12 connecting cable 4 pole, M12x1 plug-socket unshielded, PUR M12 connecting cable 5 pole, M12x1 plug-socket, unshielded, PUR	HA010826 (2 m / 6.6 ft) HA010813 (2 m / 6.6 ft) HA010814 (5 m / 16.4 ft) HA010815 (10 m / 32.8 ft)																
Protection cap 	M12 female connector		HA010781																
Protection cap 	M12 male connector		HA010782																
T-coupler M12-M12 	EE072 EE074 EE671 EE820 EE872 Humlog 20	T-coupler 1 male - 2 female for M12 5 pole connection 	HA030204																