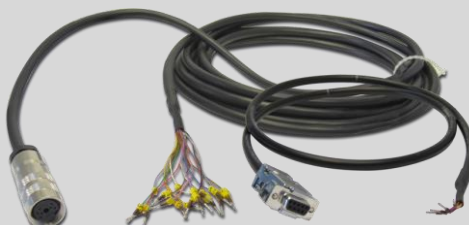# Accessories

Pyrometer Connection Cable AL / AM / AU / AV

For all Metis and Sirius pyrometers with 12 pin connector
(All cables 14 wire + shield, ferrules, screw terminals)

AL
Standard connection cable

AM
Standard connection cable with
9-pin SUB-D connector
with 1 m interface cable

AU / AV
AU: Standard connection cable with
RS232⇔USB interface converter

AV: Standard connection cable with
RS485⇔USB interface converter

Equipment Variations / Order Number

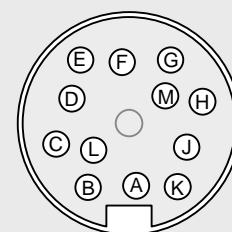| Connector pyrometer side	AL	AM (Sub-D)	AU (RS232)	AV (RS485)
with right-angle connector / push button	AL10-05 (5 m)	AM10-05 (5 m)	AU10-05 (5 m)	AV10-05 (5 m)
with right-angle connector	AL11-05 (5 m)	AM11-05 (5 m)	AU11-05 (5 m)	AV11-05 (5 m)
with straight connector	AL43-05 (5 m)	AM43-05 (5 m)	AU43-05 (5 m)	AV43-05 (5 m)
with right-angle connector / push button and SC10 cable/ right-angle connector (0.5 m)	AL15-05 (5 m)	AM15-05 (5 m)	AU15-05 (5 m)	AV15-05 (5 m)
with right-angle connector and SC10 cable / right-angle connector (0.5 m)	AL17-05 (5 m)	AM17-05 (5 m)	AU17-05 (5 m)	AV17-05 (5 m)
	AL..-xx	AM..-xx	AU..-xx	AV..-xx

*) xx in 5 m increments

Sensortherm reserves the right to make changes in scope of technical progress or further developments.

Accessories

Technical Data

Cable:	Twisted pairs, screened data transmission cable with color code acc. to DIN 47100, RoHS conform
Designation:	LiYwCYw (TP)
Conductor:	7 x 2 x 0,14 mm² + shield
Capacity:	120 nF / km
Conductor resistance:	142 Ω / km
Outer sheath:	PVC black, heat resistant
Temperature range:	-20°C up to +90°C, short-term +105°C
Outer diameter:	7.1 mm +/-0.2 mm
Minimum bending radius:	flexible use: 110 mm; fixed installation: 55 mm
Burning rate:	flame-retardant to VDE 0482 - part 265-2-1 / IEC 6033-1-2

Pin Assignment

Cable colors	No.	Function	Pin	
White	1	+ 24 V DC power supply (18–30 V DC)	K	
Brown	2	0 V DC power supply (ground)	A	
Green	3	+ Analog output 1 (0 / 4–20 mA)	L	
Yellow	4	- Analog output 1 (0 / 4–20 mA)	B	
White-green	14	+ Analog output 2 (0 / 4–20 mA)	D	
Brown-green	15	- Analog output 2 (0 / 4–20 mA)	B	
Grey	5	Digital input / output 1 [1]	H	
Pink	6	Digital input / output 2 [1]	J	
Blue	13	Digital input / output 3 / Analog in [1]	E	
Black	9	RS232: RxD; RS485: B (+) [2]	F	
Grey-pink	11			
Violet	10	RS232: TxD; RS485: A (-) [2]	C	
Red-blue	12			
Red	8	DGND (ground for interface)	G	
Orange	7	Shield (connect only for cable extension, do not connect in the control cabinet)	M and plug housing	

Connector pins of the 12 pin pyrometer connector (view from outside)

[1] Reference potential 0 V, brown   [2] H3 models only RS485

TO CONSIDER When connecting this cable to devices of type Metis, Metis II or Sirius:
When connecting devices of type Metis, Metis II or Sirius with these new cables, do not connect the blue and white-green wire, the device could be damaged. These wires are only used for new devices of types M3 or H3.

Note: To prevent accidental short circuits, not used cable wires need to be placed, for example to the supplied screw terminals.