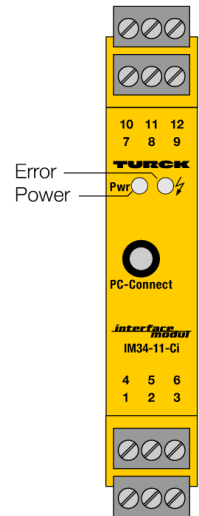
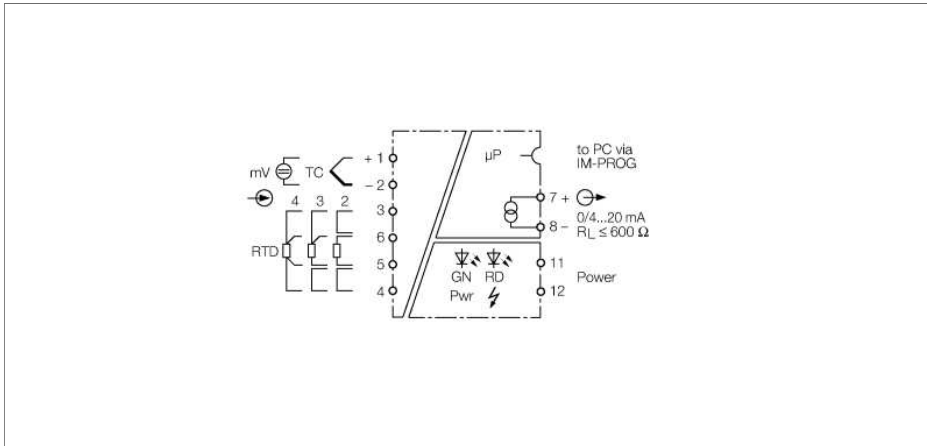


**Temperature measuring amplifier
1-channel
IM34-11-Ci**



The 1-channel temperature measuring amplifier IM34-11-Ci is designed to evaluate the temperature-dependent variations of resistance thermo detectors (RTD) Ni100/Pt100, thermoelement types B, E, J, K, L, N, R, S and T or low voltages in a range of -160...+160 mV and to output them as linear temperature current signals.

Resistance thermo detectors Ni100/Pt100 in 2, 3 or 4-wire-technology can be operated alternatively at the input circuit of the measuring amplifier. The Ni100/Pt100 input can either be used as external cold junction compensation for the thermoelement or as independent measuring input.

The device can be configured and parametrized via PC with the software tool Device Type Manager (DTM). For this, the device is connected to the PC via the 3.5 mm jack plug at the front (the matching transmission cable IM-PROG III can be ordered separately from TURCK).

The following settings are available:

- Connection mode (2, 3 and 4-wire technology)
- Lower limit
- Upper limit
- Input circuit monitoring for wire-break
- Current output adjustable in the event of input circuit errors: 0 resp. > 22 mA
- Internal or external cold junction compensation
- Output current (0/4...20 mA)
- Temperature indicated in °C or °K
- Mode (resistance, thermocouples, low voltage, line compensation)

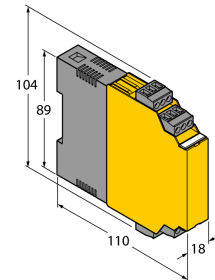
The signals are transformed according to ITS 90/IEC 584 for thermoelements and IEC 751 for Pt100 RTDs and provided as temperature linear signals at the current output.

- **Input for Pt100/ Ni100 resistors, thermocouples and millivolt signals in 2, 3 or 4-wire technology**
- **Output circuit: 0/4...20 mA**
- **Parametrized via FDT/DTM**
- **HART®**
- **Removable terminal blocks**
- **Complete galvanic separation**

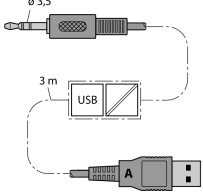
**Temperature measuring amplifier
1-channel
IM34-11-Ci**

Dimensions

Type code	IM34-11-Ci
Ident no.	7506638
Nominal voltage	Universal voltage supply unit
Operating voltage	20...250 VAC
Frequency	40...70 Hz
Operating voltage range	20...125 VDC
Power consumption	≤ 3 W
Input circuits	thermocouple Pt100
Pt100	(IEC 751), 2, 3 and 4-wire technology
Ni100	(DIN 43760), 2, 3 and 4-wire technology
Probe current	≤ 0.2 mA
Thermoelements	B, E, J, K, N, R, S, T (ITS 90/IEC 584), L (DIN 43710)
Voltage input	-0.160...+0.160 VDC
Output circuits	
Output current	0/4...20 mA
Load resistance current output	≤ 0.6 kΩ
Fault current	0 / 22 mA adjustable
Reference temperature	23 °C
Accuracy current output	± 5 µA
Temperature drift analogue output	0.0025 %/K
Temperature drift RTD input	± 3 mΩ/K
Temperature drift TC input	3.2 µV / K (of 320mV)
Accuracy RTD input	± 50 mΩ
Accuracy TC input	± 15 µV
Cold junction compensation error	2-wire < 100mΩ after line compensation 3-wire < 100mΩ with asymmetrical wiring 4-wire < 50mΩ with cold junction compensation with IM-3-CJT < 1K
Galvanic separation	
Test voltage	2.5 kV
MTTF	200 years acc. to SN 29500 (Ed. 99) 40 °C
Indication	
Operational readiness	green
Error indication	red
Protection class	IP20
Ambient temperature	-25...+70 °C
Storage temperature	-40...+80 °C
Dimensions	104x 18x 110 mm
Weight	130 g
Mounting instruction	For mounting on DIN rail or mounting panel
Housing material	Polycarbonate/ABS
Electrical connection	4 x 3-pole removable terminal blocks, reverse polarity protected, screw connection
Terminal cross-section	1 x 2.5 mm ² / 2 x 1.5 mm ²
Tightening torque	0.5 Nm



Accessories

Type code	Ident no.	Description	Dimension drawing
IM-PROG III	7525111	The programming adapter IM-PROG III is used for parametrization of TURCK IM and IMB devices via FDT/DTM and for galvanic separation.	
IM-CC-3X2BK/2BK	7541218	Cage clamps for IM modules (non-Ex devices, width 18 mm): 4 black, 3-pin, included in delivery	