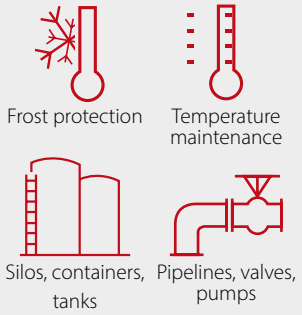
At a glance

Applications



- Power plants
- Chemical industry
- Petrochemical industry
- Oil and gas industry
- Pharmaceutical industry
- Plastics industry
- Process technology

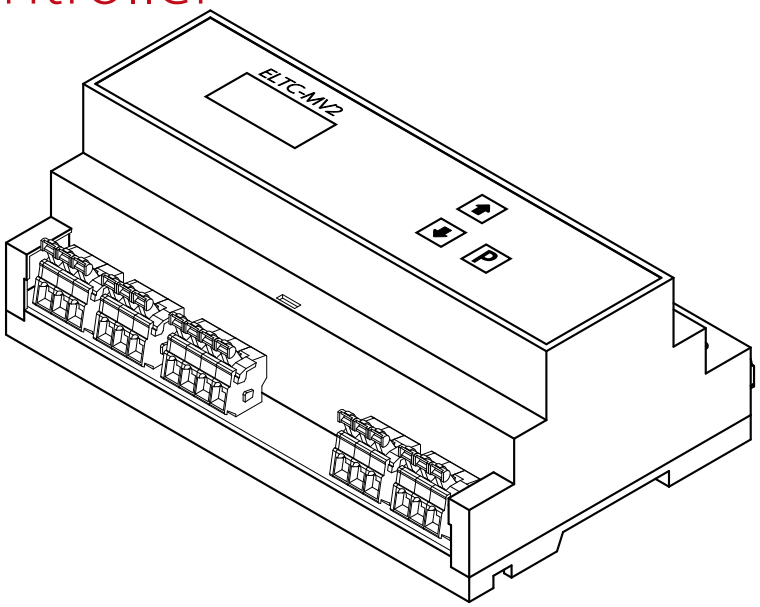
Advantages

- LED display
- Connection to SCADA system
- Multi-voltage device
- Diverse control functions
- Hybrid relay 20 A wear-free
- Inrush current limiting
- Monitoring functions

Approvals

ELTC-MV2

Moduvise Temperature Controller



The temperature controller ELTC-MV2 Moduvise is a multi-function device with 15 control functions. Temperatures can be measured either by Pt100 in 2- & 3-wire technology, by thermocouples type J and type K, or by a standard signal.
The temperature controller has four analogue inputs, two analogue outputs and three digital inputs. As a safeguard it has a message and alarm relay. There are also two RS485 interfaces, one for connecting to higher-level control systems such as the eltherm SCADA system TraceVision (Modbus protocol).

Checklist

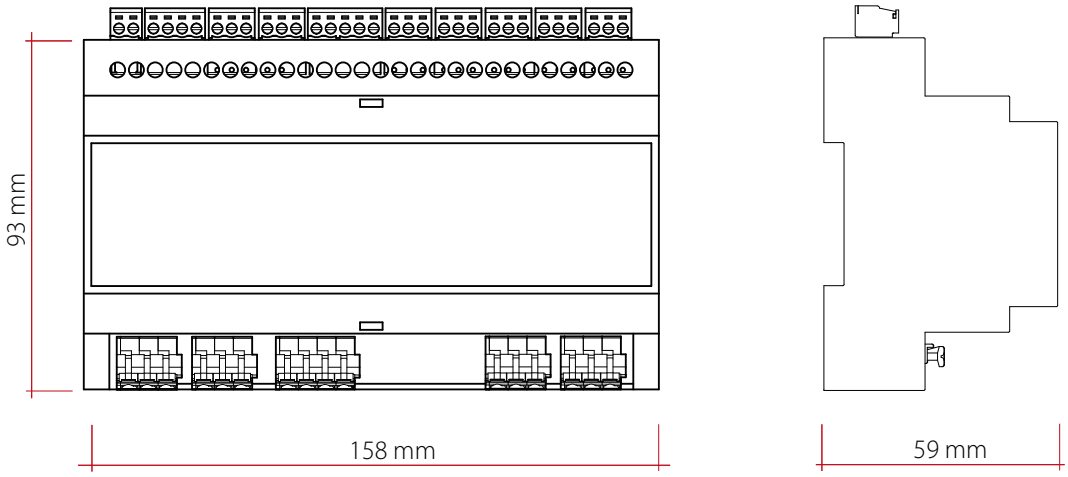
Temperature sensors

ELTF-PT.1	Pt100 **2**-wire, cable PVC, length = 5 m	0650001
ELTF-PT.15	Pt100 **3**-wire, cable fluoropolymer, length = 3 m	0650070
ELTF-PT.33	Pt100 **2**-wire, cable fluoropolymer, length = 5 m	0650000
ELTF-Te4.1	Thermocouple type K, cable silicone, length = 5 m	0670019
Ex ELTF-PTEx.2	Pt100 **4**-wire AL fluoropolymer, length = 3 m,	0X70002
Ex ELTF-PTEx.4	Pt100 **2 x 3**-wire AL fluoropolymer, length = 3 m	0X70030

Technical Specifications

Operating voltage	100V..277 VA C, +/-10%, 50/60Hz, 24 V DC, +/-5%
Max. power consumption	5.5 VA
Switching capacity Relay K1 N/O contact (heating)	20 A resistive load, max 277 VAC
Switching capacity Relay K2 changeover contact (alarm)	8 A resistive load, max 250 VAC 1 A resistive load, max. 24 VDC
Switching capacity Relay K3 changeover contact (OT alarm)	
Ambient temperature	- 25 °C to + 55 °C
Storage temperature	- 30 °C to + 60 °C
Setpoint temperature range	- 50 °C to + 999 °C (°C or °F adjustable)
Measuring range	Pt100 -60...+410°C Type K 0...999°C Type J 0...700°C
Switching accuracy	± 1K, ± 2 digits (-50...400°C)
Connection terminals	Sensor: 0.2...1.5mm² CU, other: 0.1...2.5mm² CU one-wire,
Interface	RS485
Sensor connection	Pt100 2- or 3-wire; Thermocouples J or K; standard signal; meets requirements for operation with ELTF PTEx sensors
Display	LED, red, 11 mm, three-wire
Housing material	Plastic housing with foil keyboard
Housing dimensions	153 (8.5 TE) x 93 x 59 mm (WxHxD)
Protection	IP 20
Mounting	DIN rail TS35
Weight	approx. 0.8 kg

Dimensions



Ordering Information

Type	Item no.
ELTC-MV2	0611135

8643020611135 Data sheet for ELTC-MV2 EN - subject to technical changes without notice.

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