



MTC 80

Temperature controller

Application

The Alfa Laval MTC 80 temperature controller can be used with Alfa Laval plate heat exchangers, heaters and other steam or thermal oil heaters, for heating of, for example, mineral oils.

The controller regulates a motor driven regulating valve in order to keep the heated oil at a constant temperature.

The MTC 80 temperature controller is a highly versatile single-loop controller contained in a robust field-mounting housing.

There is no need to fit an expensive instrument panel when installing or upgrading process equipment. The MTC 80 can be rapidly commissioned by simply fixing it to any flat surface and making the electrical connections via the cable entry glands on the underside of the unit.

Due to IP66/NEMA4X water/dust protection the MTC 80 can be mounted right next to your process, no matter how harsh the environment.

Features

- Wall mounted housing.
- Compact and robust design.
- Output for motorized valve control.
- Inputs for two temperature sensors.
- Adaptable to different heater types.

Benefits

- Easy installation.
- Accurate temperature control.
- Suitable to use with Alfa Laval's plate heat exchanger or heaters from other makers.

Function

The electronic temperature controller receives temperature signals from a temperature sensor and automatically adjusts the heater load via a regulating valve until a preset, oil temperature is reached.

Input from a second temperature sensor is used for monitoring the set temperature limits, and an alarm indication is given when limits are exceeded.



MTC 80 temperature controller.

In addition to controlling the temperature, the MTC 80 program also:

- Checks for alarm conditions and shuts off the heat when necessary.
- Runs test routines to check that the unit is operating correctly.

Standard accessories

24V transformer for regulating valve.

Optional equipment

Motor-driven regulating valve.
Temperature sensor.

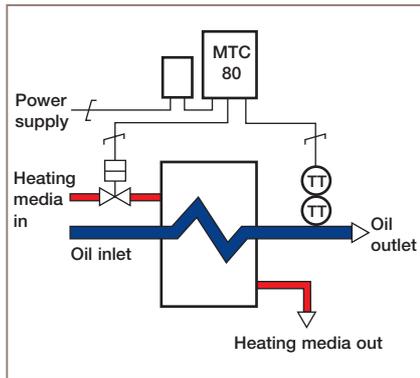
Technical data

MTC 80

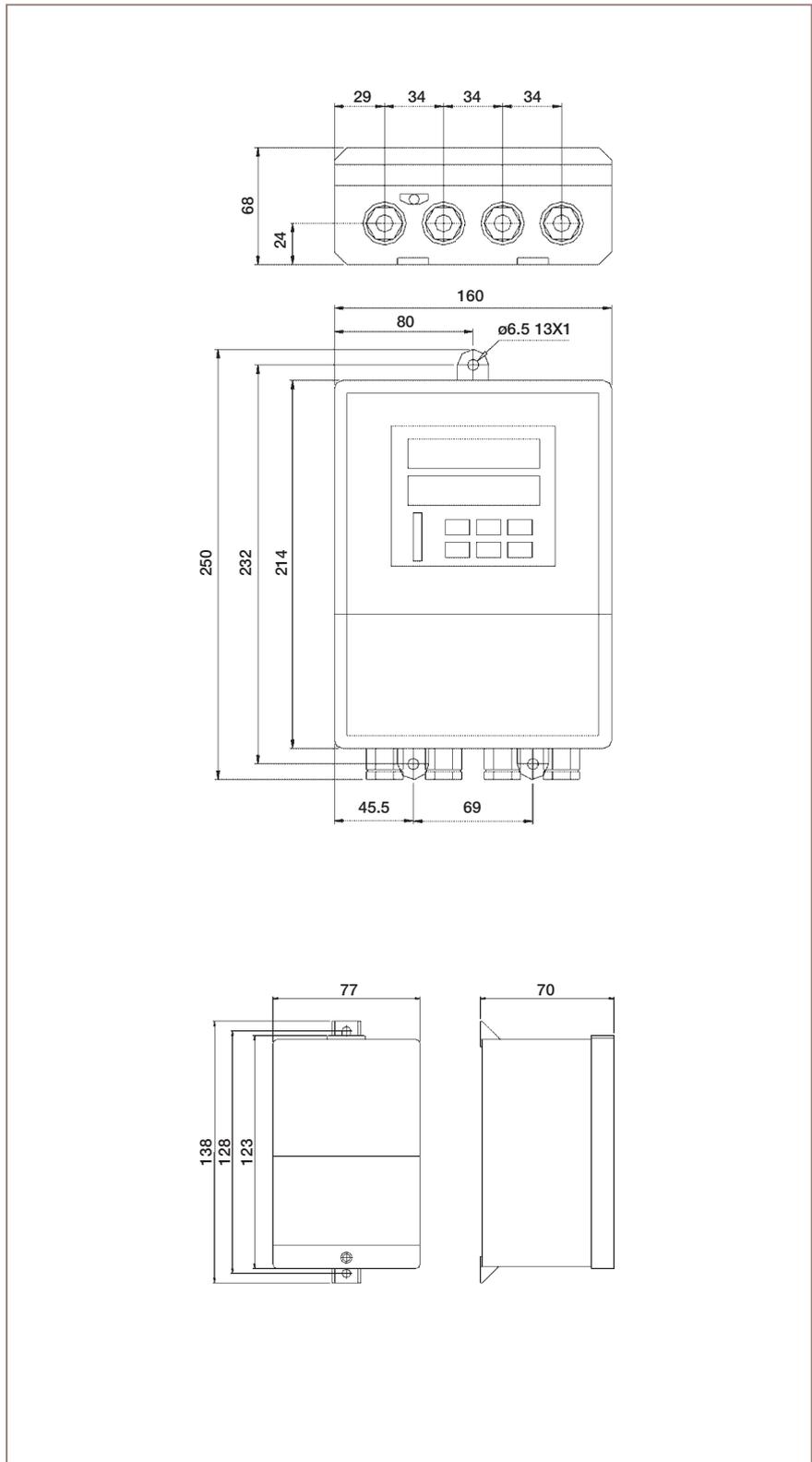
Power supply:	230V ±15% 50/60 Hz (115V link selectable)
Power for valve:	24V AC, approx. 3VA
Cable glands:	4xM20
Protection class:	IP66/NEMA4X
Ambient temperature max.:	55°C
Weight:	2 kg
Input:	2xPt100 (process value + alarm)
Output:	2 relays for valve drive 1 relay for alarm
Range:	0–150°C
Reg. function:	PI

Transformer

Protection class:	IP54
Rated power:	25 VA
Ambient temperature:	55°C
Weight:	1.1 kg



Typical application.



Dimensions MTC 80 and transformer.

EMD00039EN 0311

Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval

Contact details for all countries are continually updated on our web site. Please visit www.alfalaval.com to access the information direct.