

MP-Bus and OpenTherm communication

Type	DI	DO	AI	AO	Comm
UC-1203					TCL2, MP-Bus
UC-1204					TCL2, OpenTherm

Basic features

- The module **UC-1203** is designed for the Tecomat Foxtrot basic module as communication channels expansion by Belimo's company MP-Bus that is used for valve drives and air-condition shutters control.
- MP-Bus is supplied from 24 V DC/AC.
- Up to 8 Belimo MFT drives can be driven by one bus.
- UC-1203 can read 1 temperature sensor (RTD Ni1000, Pt1000, resistance transmitter 1000 Ω) or contact connected to each drive.
- Measured temperature (or contact status) is transferred to the system and it is available as standard analog (binary) input.
- The module **UC-1204** is designed for the Tecomat Foxtrot basic module for bidirectional communication with boilers equipped with OpenTherm interface/protocol.
- Supported protocol** both OT/+ (OpenTherm/plus) and OT/- (OpenTherm/Lite).

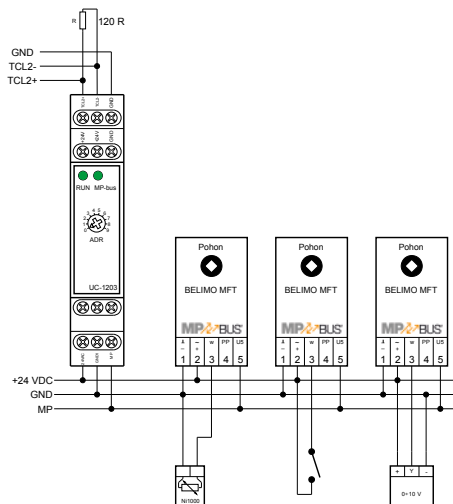
Connection

- Designed for the installation on DIN rail.
- Modules are realized as TCL2 bus communication expansion modules.
- UC-1203 MP-Bus module installation: for recommended cables and lengths see MP-Bus specification (Belimo company manuals)
- UC-1204 OpenTherm module installation: 2-wire cable, not twisted, 50 m at max., cable resistance $2 \times 5 \Omega$, any polarity.

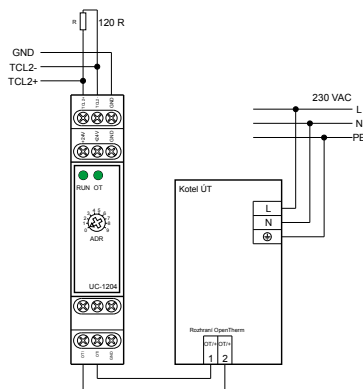
Use

- It can be used in measuring and control tasks and in building management systems (HVAC).

Connection example UC-1203 (MP-Bus)



Connection example UC-1204 (OpenTherm)



Operating conditions

Operating temperature	-20 ÷ +55 °C
Storage temperature	-25 ÷ +70 °C
Electric strength	according EN 60950
IP Degree of protection IEC 529	IP 20
Overvoltage category	II
Degree of pollution IEC EN 60664-1:2004	1
Working position	any
Installation	On DIN rail
Connections	Screw terminals
Conductors cross-section	max. 2.5 mm ²

Dimensions and weight

Dimensions	90 × 18 × 65 mm
Weight	75 g

Power supply

Power supply voltage (SELV)	+24 V DC
Allowed range	-15% ÷ +25% (20.4 ÷ 30 V DC)
Max. input power	2.5 W, (UC-1203), 0.4 W (UC-1204)
Galvanic isolation	Yes

Order number

TXN 112 03	UC-1203, MP-Bus – Communication module for Belimo's servodrive connection
TXN 112 04	UC-1204, OpenTherm – Communication module for boilers connection



UC-1203



UC-1204