

## Multi-channel thermometers for RTD type AL64MX

## AL64MX

**Measuring cassettes type AL64MX**

AL64MX measuring cassettes allow temperature measurement with two and four-wire RTD sensors. We offer 4 types of cassettes for effective and economical construction of measuring stand:

- AL64MX64T - 64 RTD, PT100 inputs.
- AL64MX48T - 48 RTD, PT100 inputs.
- AL64MX32T - 32 RTD, PT100 inputs.
- AL64MX16T - 16 RTD, PT100 inputs.

For measuring cassettes we offer driverAL driver or driverMX program communicating with cassettes in TCP/IP mode (WIN).

The driverAL driver enables communication in the MODBUS TCP/IP RTU standard with external programs. In addition, the controller has a manual mode to help when running external presentation or control programs.

The driverMX program enables graphical and tabular presentation of current measurements and saving to text files. To facilitate the presentation, the user has up to 25 programmable windows. The program supports up to 2048 measurement channels.

The cassettes have a wide range of supply voltages from 7V to 36V, M12 3PIN connector and a second 5V micro USB power connector. In addition, the USB port is used to program communication parameters.

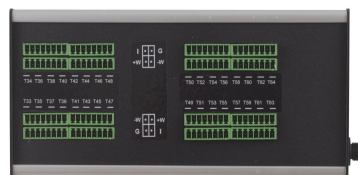
Sampling rate 4 sec for 64 channels to 1.5 sec for 16 channels.



AL64MX64T 64 channel cassette.



M12 power sockets, micro USB and communication RJ45.



AL64MX32T 32 channel cassette.

**Technical parameters:**

- PT100 inputs: 64/48/32/16 inputs.
- Input connector: 3.5mm 8PIN pluggable terminal block.
- Max. measured temperature: <math><450\text{ }^{\circ}\text{C}</math>.
- Minimum temperature: > -90 °C.
- Measurement resolution: 0.1 °C.
- Frequency of measurements: min 5/4/3/2 sec respectively.
- Input characteristics accuracy: +/- 0.1 °C.  
for -20 °C <math><T</math> <math><200\text{ }^{\circ}\text{C}</math>.
- Power supply: M12 port plug, from 7V to 32V.
- Max power consumption: 2.4W/Uzas e.g. 24V/0.1A.
- Service supply: 5V/0.45A micro USB port.  
Programming IP, Port, Slave.
- Communication interface: LAN RJ45.
- Cassette IP address: see type plate,  
TCP port number: 3999
- Dimensions 64/48: LxSxH = 265x210x65mm.
- Dimensions 32/16: LxSxH = 265x105x65mm.
- Max weight: for 64/48 1.2kg, for 32/16 0.7kg.

For correction and calibration of sensors, text files with dedicated instructions are used. Below is an example of a file:

```
slave 13 dT -0.1 //192.168.2.212
slave 14
      k3 sB 0.9986 sC 0.23
      k7 sB 0.982 sC 0.3
      k13 sC 0.4
slave 15
      k2 sB 1.0121 sC -0.31
      k5 sB 0.982 sC 0.3
      k15 sC 0.4
slave 16 dT 0.4 sB 1.012
```