KEPmLINE

mL-CS8
8 CHANNEL RTD PT-100 SCANNER WITH 10 RELAYS

FEATURES
- 320 x 240 pixel TFT LCD display
- 8 PT-100 temperature sensor inputs
- ON-OFF control
- Relay or (pnp "source") transistor output
- Sensor error detection
- Adjustable temperature offset
- 3 Different alarm and pre-alarm types for each channel (High, Low and Band Alarms)
- User defined channel labels
- Display scan modes
- Operating with Real Time Clock (RTC)
- RS-232 and RS-485 with ModBus RTU communication protocol
- Data Logging to USB Flash Memory
- Adjustable data logging time interval
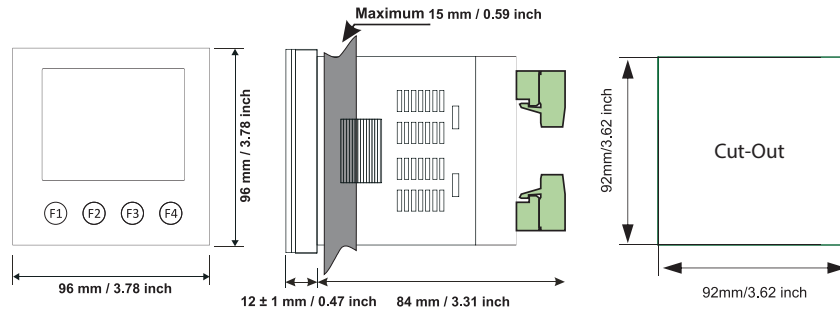- Password protection for programming mode

DESCRIPTION
The mL-CS8 series 8 channel PT100 scanner devices are designed for measuring and logging temperature. They can be used in many applications with their PT-100 process input, alarm outputs, selectable alarm functions, RS-232 / RS-485 communications. Application Fields Glass, Plastic, Petro-Chemistry, Textile, Automotive, Machine production industries. Applications Heating, Baking Ovens, Incubators Storages, Air Conditioning
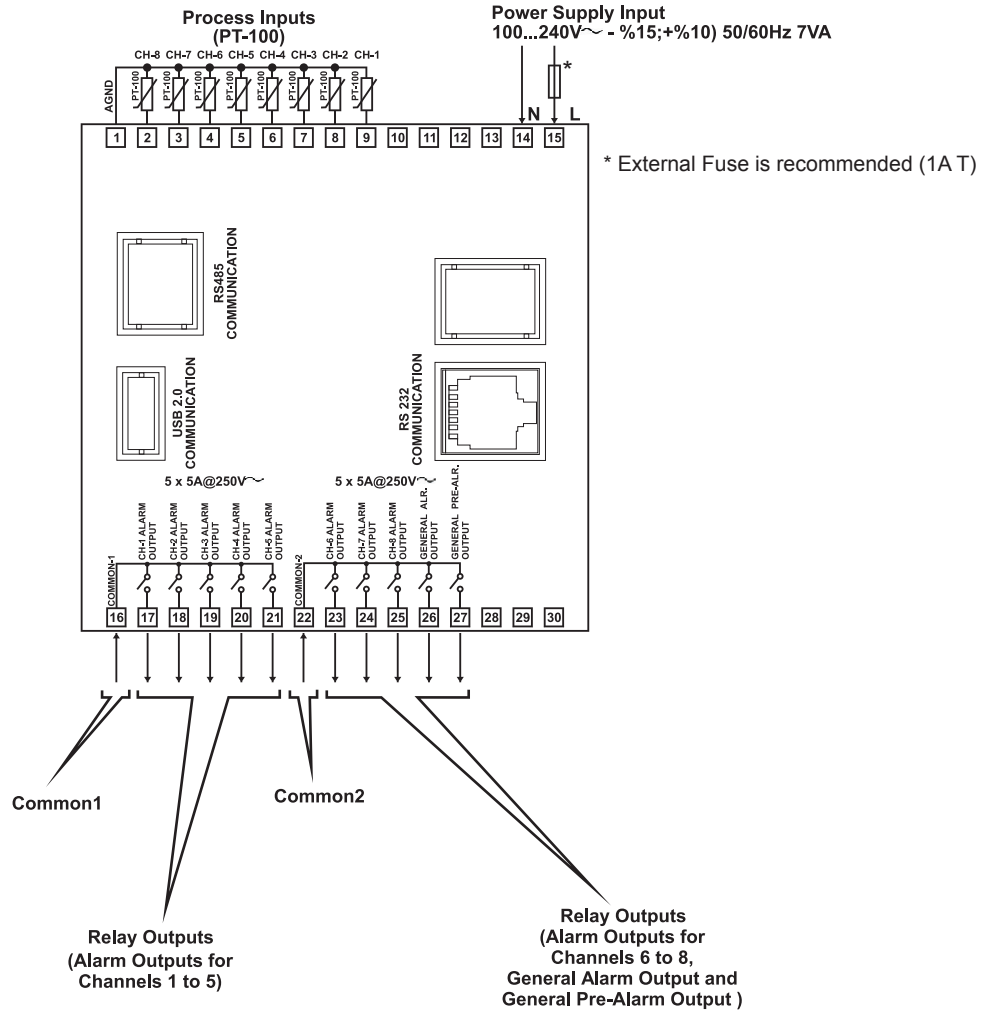
SPECIFICATIONS

RTD Input:	2 wire PT100 (IEC 751) (ITS90)
Measurement Range:	-200°C I+ 650°C
Accuracy:	± 0.25% of full scale
Sensor Break Protection:	Upscale
Sampling Time:	400msecs.
Line Compensation:	Maximum 10 n
Input Resistance:	> 1 0Mn
Relay:	Resistive Load 5A@250V~ Electrical Life: 100.000 operation (Full Load)
LCD Display:	320x240 pixel TFT LCD
Power Supply:	100 to 240 VAC (-%15 /+%10) 50/60Hz. 7VA
Operating Temperature:	0 ... 50° C
Humidity:	0-90%RH (none condensing)
Protection Class:	IP65 at front, IP20 at rear
Weight:	400 gr.
Dimension:	96 x 96 mm, Depth: 96 mm
Panel Cut-Out:	9 2 x 9 2 mm

DIMENSIONS

Maximum 15 mm / 0.59 inch

96 mm / 3.78 inch

96 mm / 3.78 inch

12 ± 1 mm / 0.47 inch   84 mm / 3.31 inch

92mm/3.62 inch

Cut-Out

92mm/3.62 inch

WIRING

Process Inputs (PT-100)

CH-8 CH-7 CH-6 CH-5 CH-4 CH-3 CH-2 CH-1

AGND

Power Supply Input
100...240V∼ - %15;+%10) 50/60Hz 7VA

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* External Fuse is recommended (1A T)

RS485 COMMUNICATION

USB 2.0 COMMUNICATION

RS 232 COMMUNICATION

5 x 5A@250V∼

5 x 5A@250V∼

COMMON-1 CH-1 ALARM OUTPUT CH-2 ALARM OUTPUT CH-3 ALARM OUTPUT CH-4 ALARM OUTPUT CH-5 ALARM OUTPUT COMMON-2 CH-6 ALARM OUTPUT CH-7 ALARM OUTPUT CH-8 ALARM OUTPUT GENERAL ALR. OUTPUT GENERAL PRE-ALR. OUTPUT

Common1

Common2

Relay Outputs
(Alarm Outputs for Channels 1 to 5)

Relay Outputs
(Alarm Outputs for Channels 6 to 8, General Alarm Output and General Pre-Alarm Output)

ORDERING INFORMATION

Model Number	Description
mL-CS8	8 Channel RTD PT-100 Scanner 1/4 DIN Case 100 to 240 VAC Supply Voltage (-15%; +10%) 50/60Hz RTD PT-100 Sensor Inputs 10 Relay Outputs with 2 common for each NO (5A @ 250VAC with Resistive Load), for each common contact 15A max. (15A @ 250VAC with Resistive Load) RS-485 & RS-232 Serial Communication with Modbus RTU Protocol