



8 CHANNEL PROCESS SCANNER AND MODBUS FACILITY



Display Touch

MS-L14-M1

APPLICATIONS

Pharma & Chemical Industry application

Generator
Monitoring & Protection

Remote terminal unit (RTU) For SCADA

Compressor/Pump/DG set monitoring

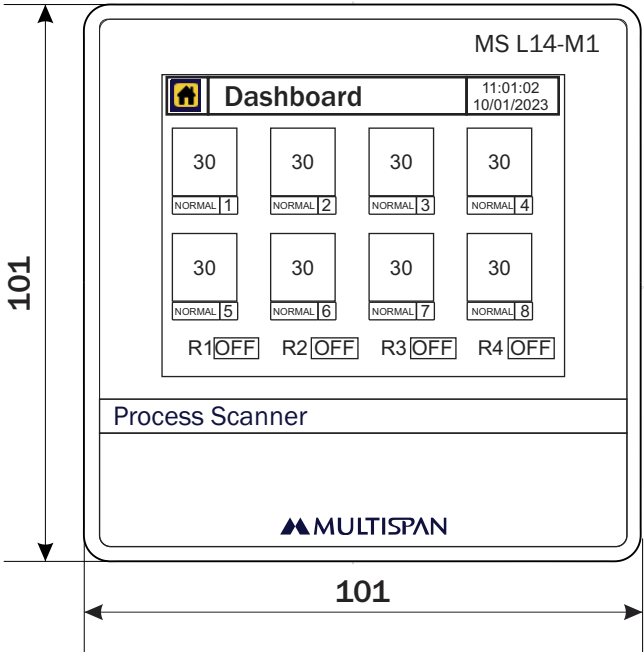
Machine Condition Monitoring

As a distributed I/O module
for interface with PLC/DCS/SCADA

Laboratory Equipment Monitoring

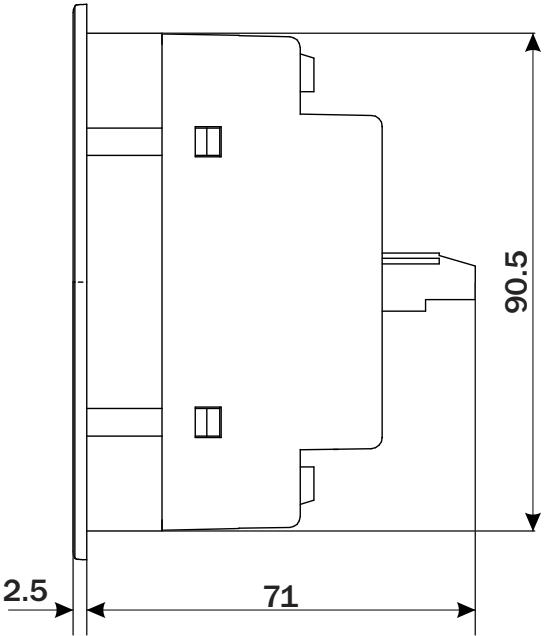
Mechanical Dimensions

Body Dimensions



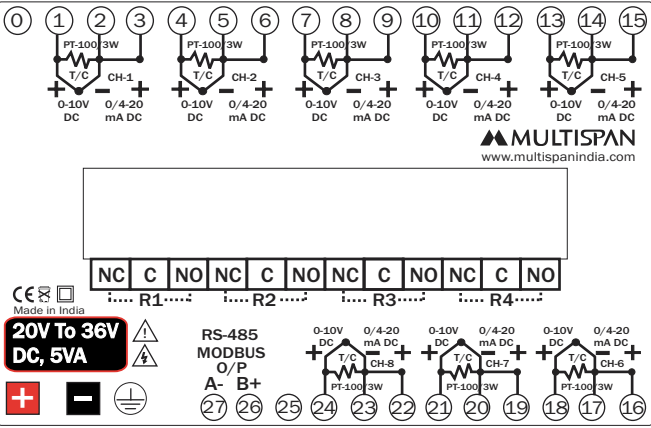
FRONT VIEW

All dimensions are in mm

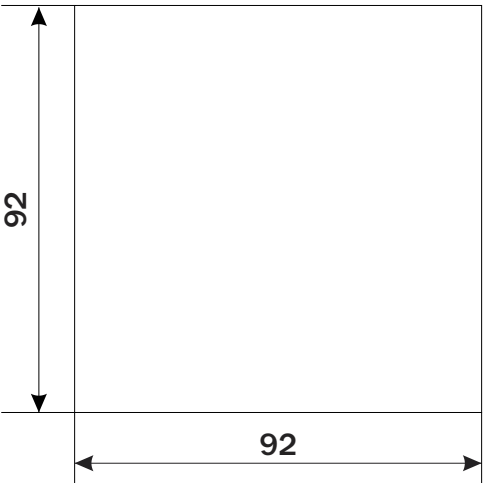


RIGHT SIDE VIEW

Connection Diagram



Panel Cutout



TECHNICAL DATA

Input	Thermocouple	J / K (Configurable)
	RTD	PT-100 3 Wire / 2 Wire (Configurable)
	Analog	0-10V DC/ 0-20mA DC/ 4-20mA DC (Configurable)
Range	Thermocouple	J: 0 to 600 °C , K: 0 to 1200 °C
	RTD	PT-100: -99 °C to 400 °C , PT.1: -99.9 °C to 400.0 °C
	Analog	-999 to 9999
Output	Output 1	4 Relay With Grouping Facility
	Output 2	RS 485 MODBUS Communication
Accuracy		± 1 % FSD
Certification		

Input		
Input	Thermocouple	J / K
	RTD	PT 100/3W
	Analog	0 - 10V DC, 4 - 20mA DC 0 - 20mA DC
ADC Resolution		16 Bits
Display Resolution		Thermocouple : 1 °C RTD : 1 °C / 0.1 °C
Sampling Rate		250 mS/Channel
Accuracy		± 1 % FSD
CJC error		±3 °C
Sensor Open		J / K / PT
T/C Burnout current		1.10uA
RTD excitation current		0.2mA
CMRR		> 120 db (Typical)
Input Impedance		> 1 M
Max Voltage		20V DC

Input Range	
Input Type	Range
J	0 to 600 °C
K	0 to 1200 °C
PT-100	-99 to 400 °C
PT.1	-99.0 to 400 °C
4-20 mA DC	-999 to 9999
0-20 mA DC	-999 to 9999
0-10 V DC	-999 to 9999

Display
320 x 240 Px Resistive Touch Screen Display

Power Supply	
Standard	20 to 36V DC
Consumption	5VA

Relay Output	
No of Relay	4
Type	1 C/O , NO-C-NC
Rating	10A @ 230V AC/30V DC

Communication(Optional)

Type	RS 485
Protocol	MODBUS RTU
Baud Rate	4800 , 9600 , 19200 , 38400 (Configurable)
Isolation	2500 V _{RMS} Isolation as per UL 1577

Environmental Characteristics

Working Temperature	0 to 55 °C
Storage Temperature	0 to 55 °C
Relative Humidity	95% RH Non-condensing
Warm up time	5 minutes
Ingress Protection	IP 65 (Front Side)

Mechanical Characteristics

Mounting Type	Panel Mount
Dimension (HxWxD) mm	101 x 101 x 71
Panel Cutout (HxW) mm	92 x 92
Material	Body Enclosure
	Polycarbonate (PC) ABS
Terminal Screw Size	M3.5
Screw Torque (N.m)	0.5
Wire Gauge (AWG)	28-12
Weight (Approx) gms	Unpacked : 320 Packed : 375
Accessories	1 Pair of Mounting Clamps