



16 CHANNEL SCANNER WITH MODBUS FACILITY

MS-5716-M1

APPLICATIONS

Motor Protection

Generator
Monitoring & Protection

Electrical Sub-station monitoring

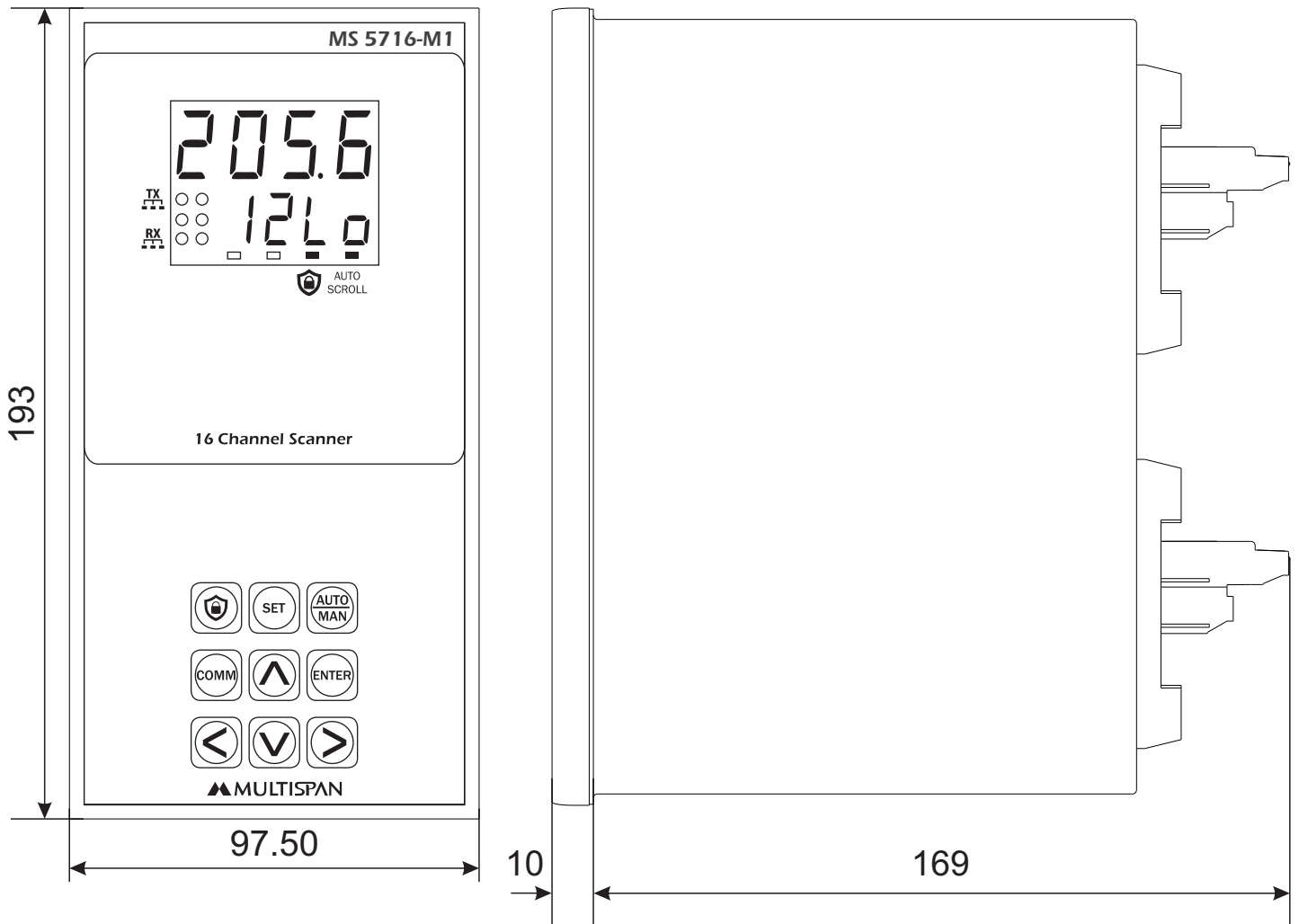
Metal and Mining applications

Power Distribution Panel

Laboratory Equipment Monitoring

Mechanical Dimensions

Body Dimensions



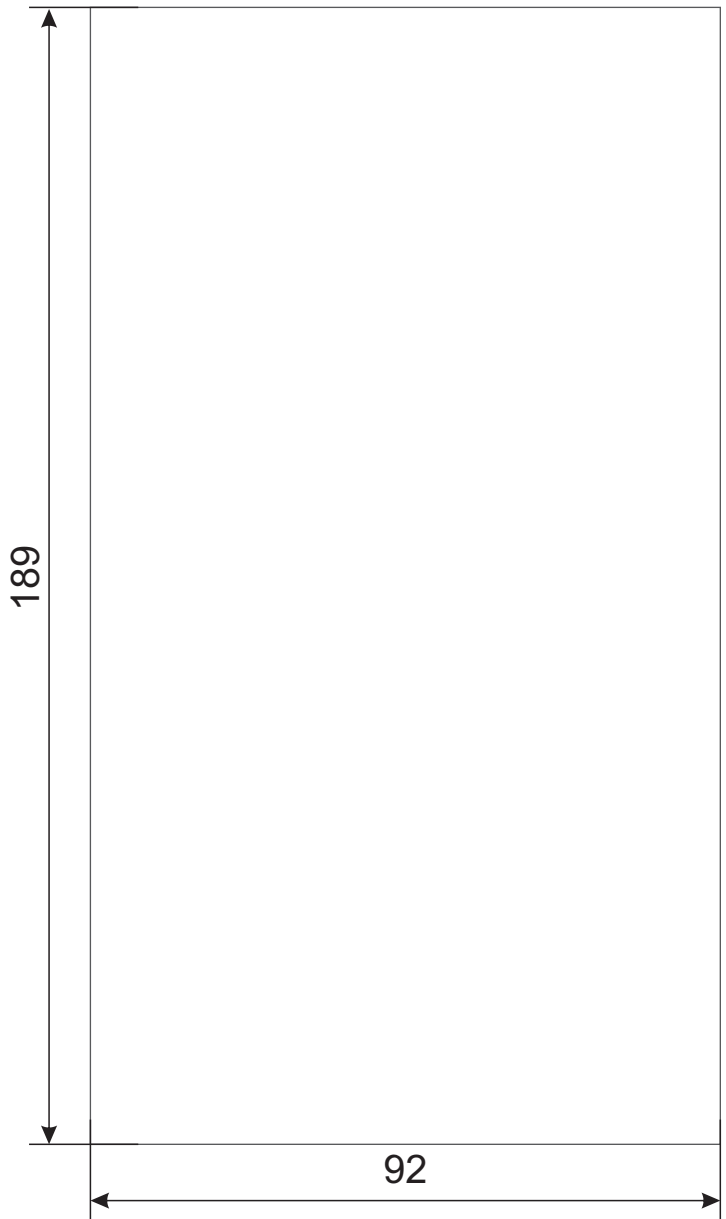
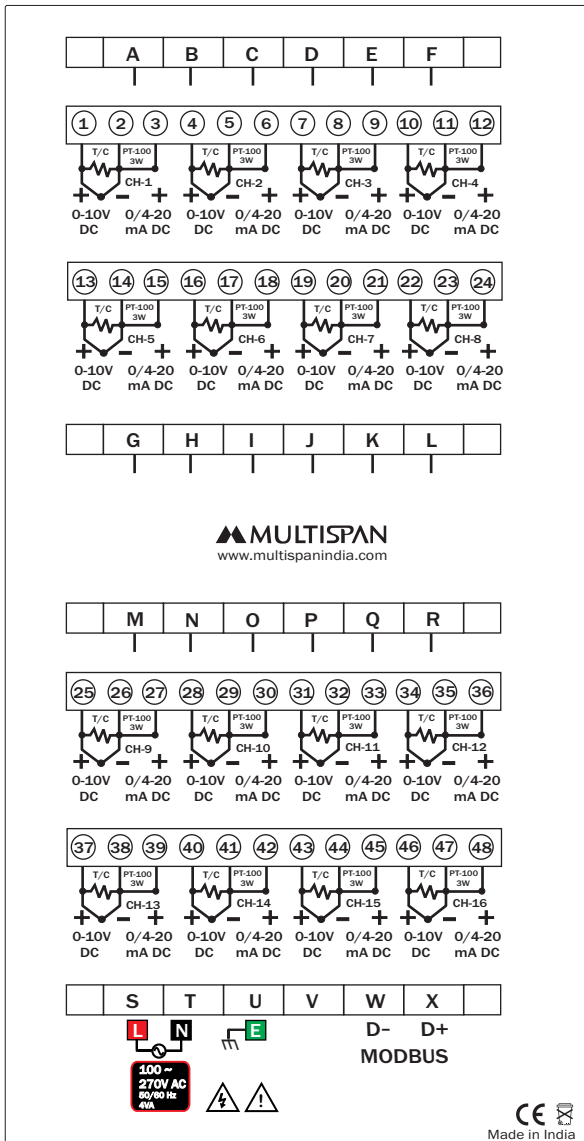
FRONT VIEW

All dimensions are in mm


RIGHT SIDE VIEW

Connection Diagram

Panel Cutout



TECHNICAL DATA

Input	Thermocouple	J / K
	RTD	PT-100 3 Wire / PT.1
	Analog	0-10V DC/ 0-20mA DC/ 4-20mA DC (Configurable)
Range	J: 0 to 600° C, K: 0 to 1200° C PT-100: -99° C to 400° C , PT.1: -99.0° C to 400° C Analog : -999 to 9999	
Output	RS 485 RTU Modbus Communication	
Power Supply	100 to 270V AC (SMPS) ,50/60Hz, Approx 4VA 24 DC Available as per Requirement	
Certification		

Input	
ADC Resolution	12 Bit
Display Resolution	Thermocouple : 1° C RTD : For PT-100 :1° C / For PT.1 : 0.1° C
Sampling Rate	250 mS / Channel

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

Power Supply	
Standard	100 - 270V AC @ 50/60Hz
Optional	24V DC
Consumption	4VA

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	
Process Value	Upper : 0.70" 4 Digit Red LED 7 Segment Display
Channel No. and Relay Status	Lower : 0.50" 4 Digit Green LED 7 Segment Display

Keys
9 controlling keys for configuration , operation and Controlling

Accuracy

J , K , PT-100 , PT.1	± 1 % FSD for J, K ± 0.5% for PT-100 , PT.1
CJC error	±2 °C
Sensor Open	J , K ,PT-100 , PT.1
T/C Burnout current	1.10uA
RTD excitation current	0.2mA
CMRR	> 120 db (Typical)
Input Impedance	> 1 M Ω
Max Voltage	20V DC

Environmental Characteristics

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

Mechanical Characteristics

Mounting Type	Panel Mount
Dimension (HxWxD) mm	193 x 97.5 x 169
Panel Cutout (HxW) mm	189 x 92
Material	Enclosure Front
	Mild Steel (Powder coated) ABS
Terminal Screw Size	M3.5
Screw Torque (N.m)	1
Wire Gauge (AWG)	26-14
Weight (Approx) gms	Unpacked : 1100 Packed : 1400
Accessories	1 Pair of Clamps