



# 8 CHANNEL SCANNER WITH MODBUS

MS-1208A-M1

## APPLICATIONS

Pharma & Chemical Industry application

Generator  
Monitoring & Protection

Remote terminal unit (RTU) For SCADA

Compressor/Pump/DG set monitoring

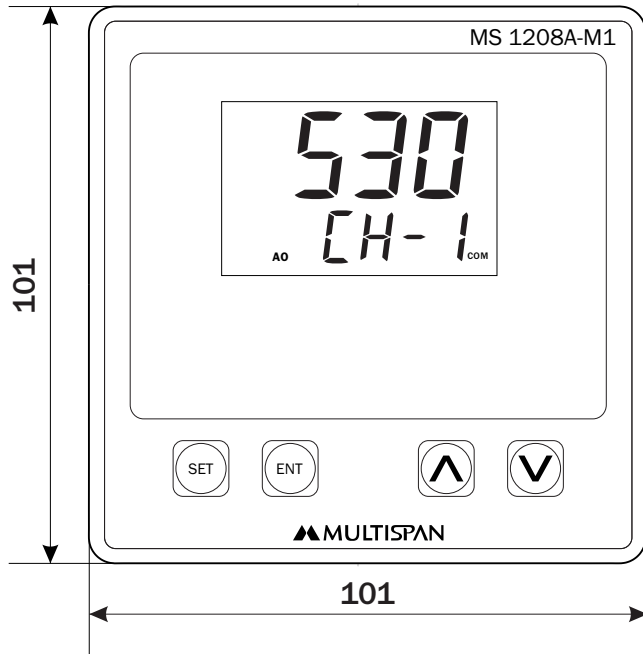
Machine Condition Monitoring

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

Laboratory Equipment Monitoring

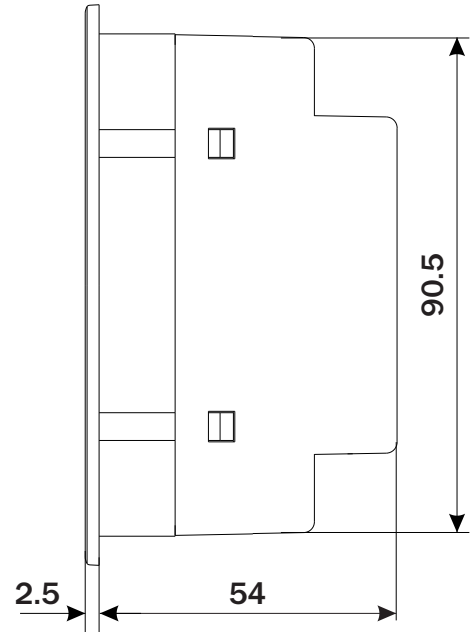
# Mechanical Dimensions

## Body Dimensions



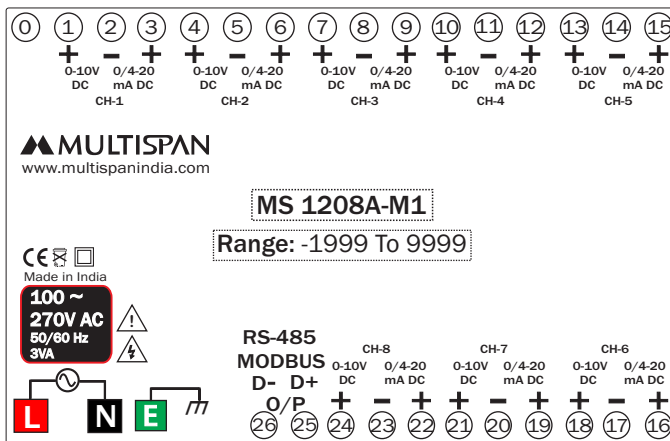
**FRONT VIEW**

All dimensions are in mm

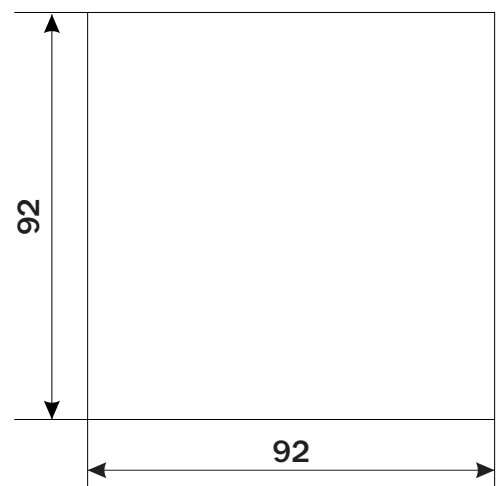


**RIGHT SIDE VIEW**


## Connection Diagram



## Panel Cutout



# TECHNICAL DATA

<b>Input</b>		0 to 10V DC
	<b>Analog</b>	0 to 20mA DC
		4 to 20mA DC
<b>Range</b>	-1999 to 9999 ( DP Selectable )	
<b>Output</b>	RS-485 Modbus Communication Protocol	
<b>Power Supply</b>	100 to 270V AC,50/60Hz,Approx 3VA	
<b>Accuracy</b>	± 1 % FSD	
<b>Certification</b>		

## Input

<b>ADC Resolution</b>	12 Bit
<b>Display Resolution</b>	Analog: 1
<b>Sampling Rate</b>	250 mS / Channel
<b>0-10V DC, 4-20mA DC/ 0-20mA DC</b>	± 1 % FSD
<b>CJC error</b>	±3 °C
<b>T/C Burnout current</b>	1.10uA
<b>CMRR</b>	> 120 db ( Typical )
<b>Input Impedance</b>	> 1 M
<b>Max Voltage</b>	20V DC

## Input Table

<b>Input Type</b>	<b>Range</b>	
0-10V DC	-1999 to 9999	} DP Selectable
0-20mA DC	-1999 to 9999	
4-20mA DC	-1999 to 9999	

## Power Supply

<b>Standard</b>	100 - 270V AC, 50/60Hz
<b>Optional</b>	24V DC
<b>Consumption</b>	3 VA

## Display & Keys

<b>Process Value</b>	<b>Upper</b> : 0.68" 4 Digit White LED 7 Segment Display
<b>Channel No.</b>	<b>Lower</b> : 0.43" 4 Digit Green LED 7 Segment Display
<b>4 Controlling Keys for configuration and operation SET , ENT , INC , DEC</b>	

## Communication (Optional)

<b>Type</b>	RS 485
<b>Protocol</b>	MODBUS RTU
<b>Baud Rate</b>	9600 , 19200 , 38400 (Configurable)
<b>Isolation</b>	2500 V <sub>RMS</sub> 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
Ingress Protection	IP 65 (Front Side)

### Mechanical Characteristics

Mounting Type	Panel Mount
Dimension (HxWxD) mm	101 x 101 x 54
Panel Cutout (HxW) mm	92 x 92
Material	Body Enclosure
	Polycarbonate (PC) ABS
Terminal Screw Size	M3.5
Screw Torque (N.m)	1
Wire Gauge (AWG)	26-14
Weight (Approx) gms	Unpacked : 320 Packed : 375
Accessories	1 Pair of Clamps