



FLOW RATE CONTROLLER

MFC 1058

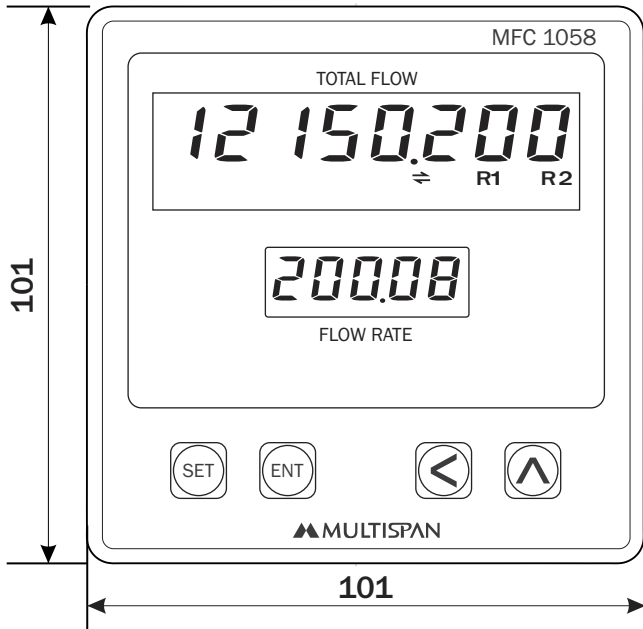
APPLICATIONS

Water Sewage Plant

Chemical & Pharma

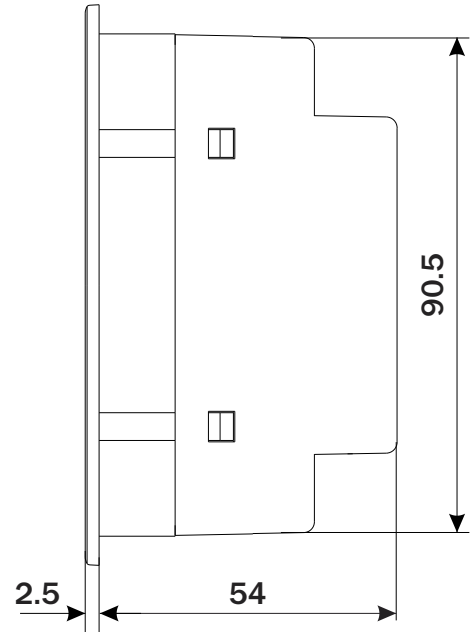
Mechanical Dimensions

Body Dimensions



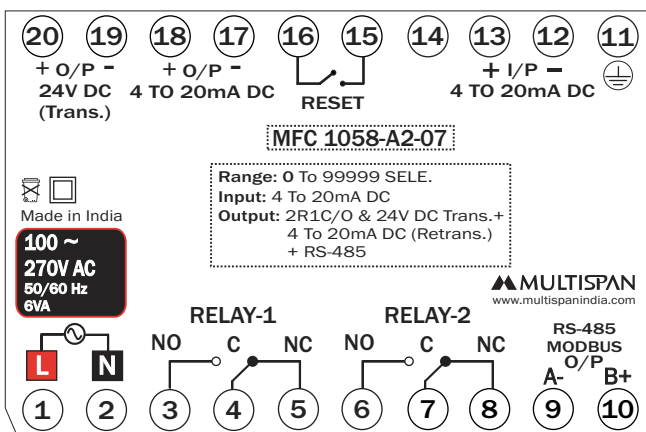
FRONT VIEW

All dimensions are in mm

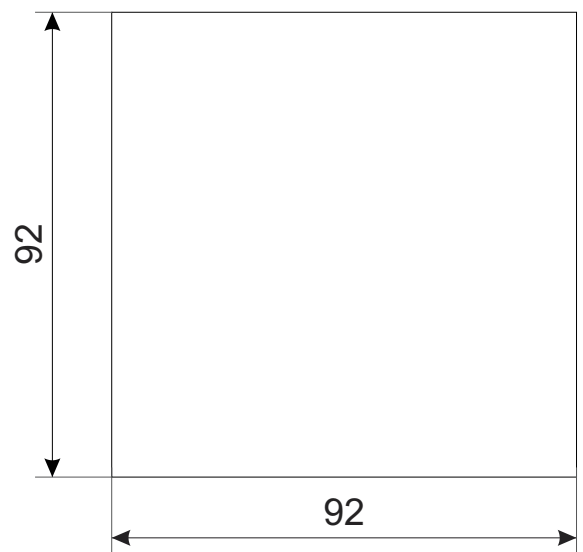


RIGHT SIDE VIEW

Connection Diagram



Panel Cutout



TECHNICAL DATA

Input	Current : 4-20mA DC	
Range	0 to 99999999 for Total Flow 0 to 99999 for Flow Rate	
Output	Output 1	Relay 1 C/O, 5A@230V AC For Resistive Load or SSR 12V DC,20mA
	Output 2	Relay 1 C/O, 5A@230V AC For Resistive Load or SSR 12V DC,20mA
	Output 3	0 to 10V DC / 4 to 20mA DC (Any one factory set) Controlling & Retrans.(Selectable)
	Output 4	RS-485 RTU MODBUS Communication (Protocol)
	Output 5	24V DC Transmitter supply
Control Action	ON-OFF	
Power Supply	100-270V AC, 50/60 Hz, Approx 6VA	

Input	
Input Type	Current : 4 to 20mA DC
Display Range	0 to 99999999 for Total Flow 0 to 99999 for Flow Rate
Accuracy	± 1% of FSD
ADC Resolution	16 Bit
Display Resolution	Decimal Point Selectable : 00000/0.0000/00.0000/ 000.00/0000.0 For Flow Rate & Total Flow
Sample Time	600 msec
Sample Rate For Analog I/P	0.1 Sec To 10 Sec (Configurable)
CJC Error	± 2 °C
Sensor Disconnect	4 to 20mA Low
Sensor Burnout Current	1.10uA
CMRR	>120 dB (Typical)
Max Voltage	20V DC
Response Time	675mS

Output		
Control Output		
Control Type	ON-OFF	
Relay Control Output		
Relay	2 Nos	
Relay Type	1C/O (NO-C-NC)	
Rating	Relay 1: 5A @230V AC/ 28V DC Resistive Load Relay 2: 5A @230V AC/ 28V DC Resistive Load	
SSR Control Output		
Rating	12V DC @20mA	
Analog Output (Retransmission) Selectable		
Current	4-20mA DC	Factory Set Any one
Voltage	0-10V DC	

Power Supply	
Standard	100 - 270V AC @ 50/60Hz
Optional	24V DC
Consumption	6VA

Display & Keys

Display	Upper	8 Digit, 7 Seg. 0.5" Red
	Lower	5 Digit, 7 Seg. 0.4" Green
Key		SET, ENT, SHIFT, INC
LED		R1, R2

Communication

Type	RS 485
Protocol	MODBUS RTU
Baud Rate	2400 , 4800 , 9600 , 19200 , 38400, 115200
Isolation	2500 V _{RMS} Isolation as per UL 1577

Environmental Characteristics

Operating Temperature	0 to 55 °C
Storage Temperature	0 to 70 °C
Humidity	95% RH Non-condensing
Protection Level	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	Front Enclosure Polycarbonate (PC) ABS
Terminal Screw Size	M3.5
Screw Torque (N.m)	0.5
Wire Gauge (AWG)	26-14
Weight (Approx) gms	Unpacked : 220 Packed : 275
Accessories	1 Pair of Clamps