

Addendum for MS-748

Flow Computer in Field Mount Enclosure

DESCRIPTION:

The MS-748 Flow Computer satisfies the instrument requirements for a variety of flowmeter types in liquid, gas, steam and heat applications. Multiple flow equations are available in a single instrument with many advanced features. The MS-748 is mounted in an attractive and rugged field mount enclosure.

CAUTIONS AND SAFETY WARNINGS:

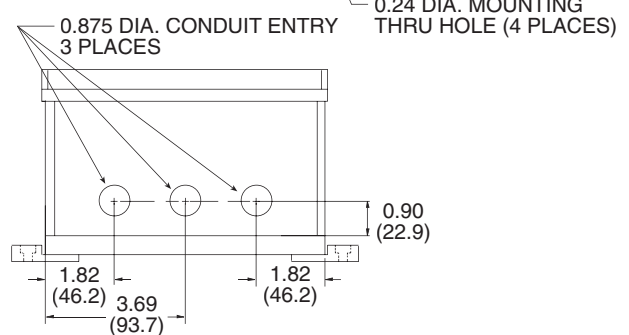
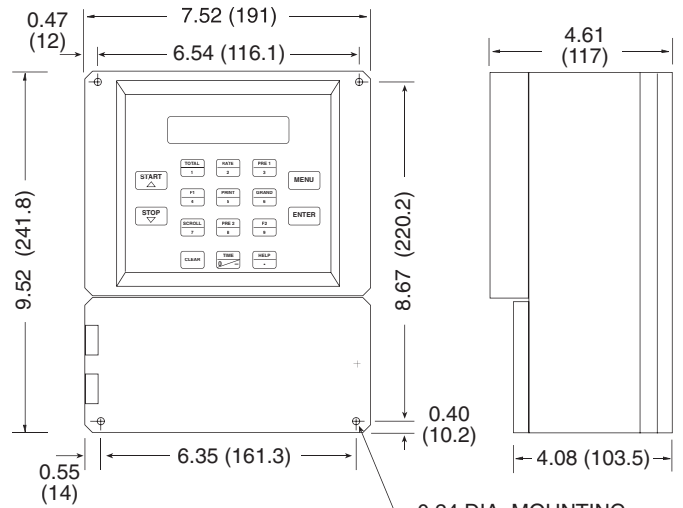
Refer to the SUPERtrol II user manual 99589 for all cautions and safety warnings.

MOUNTING GUIDELINES:

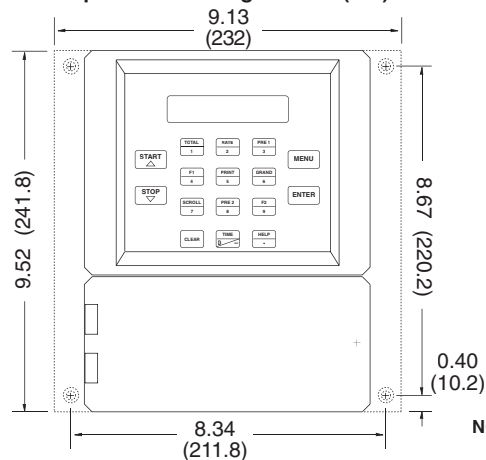
When mounting the unit, please consider the following:

1. Refer to dimensions for mounting details
2. The unit is suitable for mounting in general areas subject to temperatures between 0° and 120° F.
3. Do not mount the unit so the display will be facing the sun. Direct sunlight may obscure the display.
4. A sun/rain shield (user supplied) is recommended to provide supplemental weather protection.
5. The optional mounting brackets (MB option) come pre-assembled when the option is ordered.

DIMENSIONS:



Optional Mounting Bracket (MB)



NOTE: All dimensions are in inches (mm)

Ordering Information

Example MS-748 L 1 0 V MB

Series:

MS-748 = Flow Computer

Display Type:

L = LCD

V = VFD

Input Type:

1 = 85 to 276 VAC

3 = 24 VDC (16 to 48 VDC)

Network Card:

0 = None

1 = RS485/Modbus

Mounting:

V = Field, Skid, Vehicle Mount

Options:

1 = Peak Demand

2 = AGA NX-19 calculation for natural gas

3 = Three Relays

4 = Stacked DP option

5 = Datalogger option (consult factory)

6 = Stack Emissions Controller option

7 = Manifold Flowmeter Controller option

9 = 3 Relay Super Chip (options 1, 2, 4, 6, 7)

10 = 2 Relay Super Chip (options 1, 2, 4, 6, 7)

TU = Translation Utility Disk

MB = Aluminum Mounting Brackets (2)

Accessories:

KEPS-KEP1-32 = KEP RS232 OPC/DDE server for SUPERtrol.

KEPS-MBS32 = Modbus RTU OPC/DDE server

SUPERtrol 2 and LEVELtrol 2 • 32 Bit OPC/DDE Server

P1000 Printer (see Accessories)

IM-2400 = Internal Modem for SUPERtrol Family

MPP2400 = Port Powered Modem

MPP2400N = Port Powered Modem in NEMA4 enclosure

TWP = Industrial Two Way Pager Wireless Data Transceiver

KEP

KESSLER-ELLIS PRODUCTS

10 Industrial Way East • Eatontown, NJ 07724

800-631-2165 • 732-935-1320 • Fax 732-935-9344

<http://www.kep.com>

User Wiring

Two Relay Wiring

• 1 DC OUTPUT		FLOW
• 2 PULSE IN	V in (+)	IN
• 3 -----	I in (+)	
• 4 COMMON		
• 5 RTD EXCIT (+)		TEMP.
• 6 RTD SENS (+)		IN
• 7 RTD SENS (-)	I in (+)	
• 8 DC OUTPUT		
• 9 RTD EXCIT (+)		PRESSURE
• 10 RTD SENS (+)	(TEMP2)	IN
• 11 RTD SENS (-)	I in (+)	
• 12 PULSE OUTPUT (+)		
• 13 PULSE OUTPUT (-)		
• 14 ANALOG OUTPUT 1 (+)		
• 15 ANALOG OUTPUT 2 (+)		
• 16 ANALOG OUTPUT COMMON (-)		
• 17 NO		
• 18 COM RLY1		
• 19 NC		
• 20 NC		
• 21 COM RLY2		
• 22 NO	{22307b}	
• 23 L1 / AC LINE	L+/DC (+)	POWER
• 24 N / AC LINE	L-/DC (-)	IN

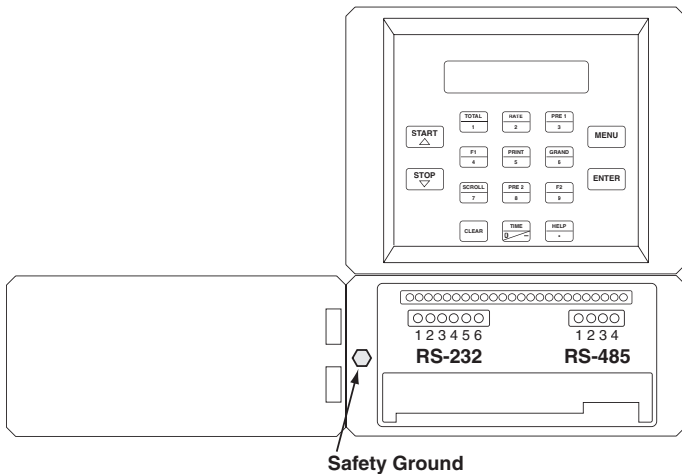
⬡ — Bronze Safety Ground Screw

Three Relay Wiring

• 1 DC OUTPUT		FLOW
• 2 PULSE IN	V in (+)	IN
• 3 -----	I in (+)	
• 4 COMMON		
• 5 RTD EXCIT (+)		TEMP.
• 6 RTD SENS (+)		IN
• 7 RTD SENS (-)	I in (+)	
• 8 DC OUTPUT		
• 9 RTD EXCIT (+)		PRESSURE
• 10 RTD SENS (+)	(TEMP2)	IN
• 11 RTD SENS (-)	I in (+)	
• 12 PULSE OUTPUT (+)		
• 13 PULSE OUTPUT (-)		
• 14 ANALOG OUTPUT 1 (+)		
• 15 ANALOG OUTPUT 2 (+)		
• 16 ANALOG OUTPUT COMMON (-)		
• 17 NO		
• 18 COM RLY1		
• 19 C		
• 20 NO RLY3		
• 21 COM		
• 22 NO RLY2	{22564b}	
• 23 L1 / AC LINE	L+/DC (+)	POWER
• 24 N / AC LINE	L-/DC (-)	IN

⬡ — Bronze Safety Ground Screw

RS-232 & RS-485 Wiring



RS-485 Wiring

- 1 Transmit (+)
- 2 TX-180 Ref
- 3 Transmit (-)
- 4 G 180 Ref

RS-232 Wiring

- 1 Transmit
- 2 Receive
- 3 Ground
- 4 MP.
- 5 DCD
- 6 Do Not Use