

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.

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)

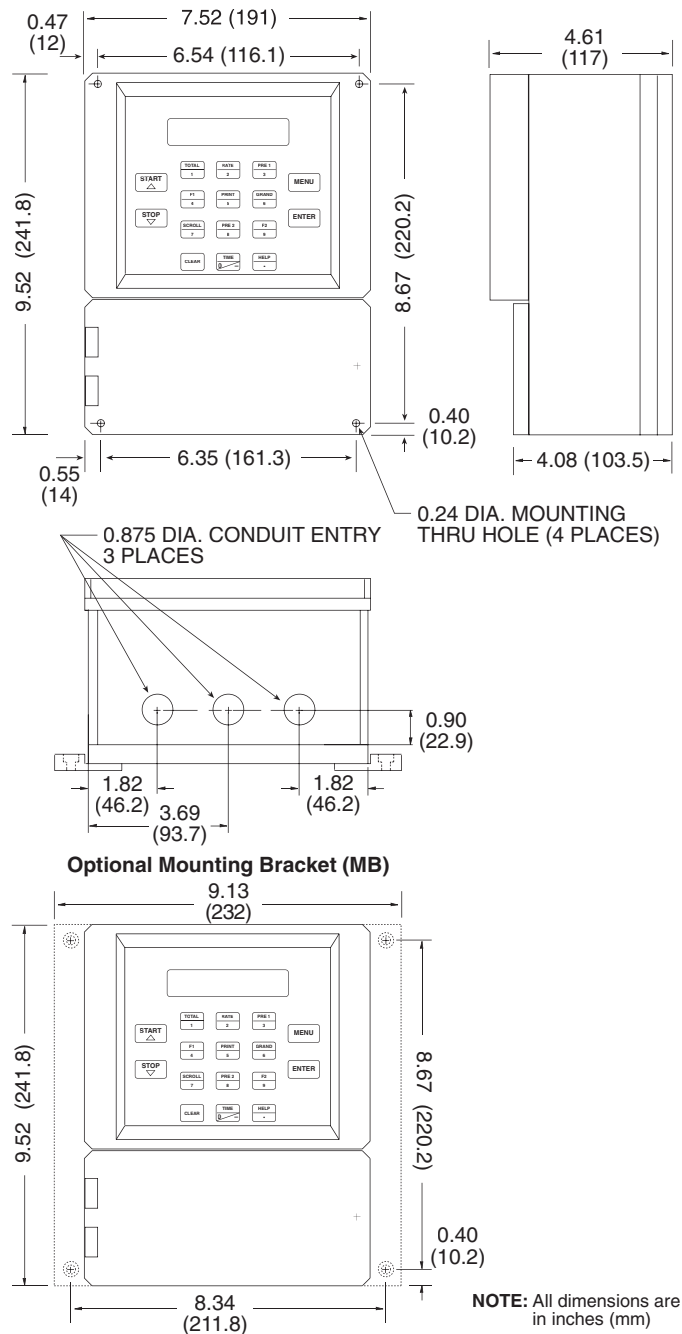
IM-2400 = Internal Modem for SUPERtrol Family

MPP2400 = Port Powered Modem

MPP2400N = Port Powered Modem in NEMA4 enclosure

TWP = Industrial Two Way Pager Wireless Data Transceiver

DIMENSIONS:



NOTE: All dimensions are in inches (mm)

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)
• 11 RTD SENS (-) I in (+)	IN
• 12 PULSE OUTPUT (+)	
• 13 PULSE OUTPUT (-)	
• 14 ANALOG OUTPUT 1 (+)	
• 15 ANALOG OUTPUT 2 (+)	
• 16 ANALOG OUTPUT COMMON (-)	
• 17 NO	{22307b}
• 18 COM RLY1	
• 19 NC	
• 20 NC	
• 21 COM RLY2	{22544b}
• 22 NO	
• 23 L1 / AC LINE	L+/DC (+) POWER
• 24 N / AC LINE	L-/DC (-) IN

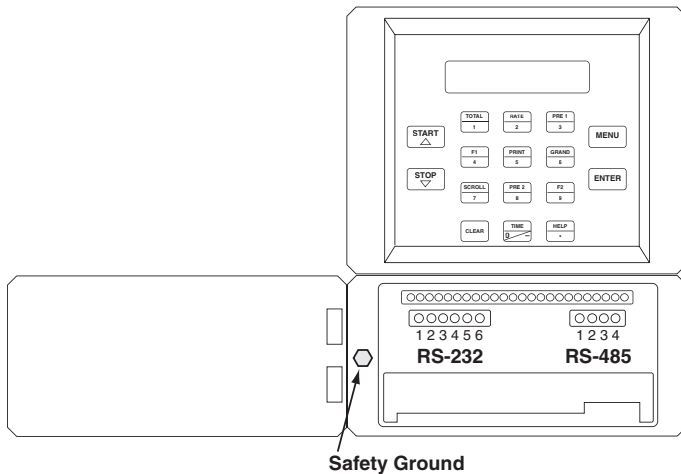
— Bronze Safety Ground Screw

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)
• 11 RTD SENS (-) I in (+)	IN
• 12 PULSE OUTPUT (+)	
• 13 PULSE OUTPUT (-)	
• 14 ANALOG OUTPUT 1 (+)	
• 15 ANALOG OUTPUT 2 (+)	
• 16 ANALOG OUTPUT COMMON (-)	
• 17 NO	{22544b}
• 18 COM RLY1	
• 19 C	
• 20 NO RLY3	
• 21 COM	{22544b}
• 22 NO RLY2	
• 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