

CMCP 540 Displacement Peak to Peak Transmitter Range Jumper Selections

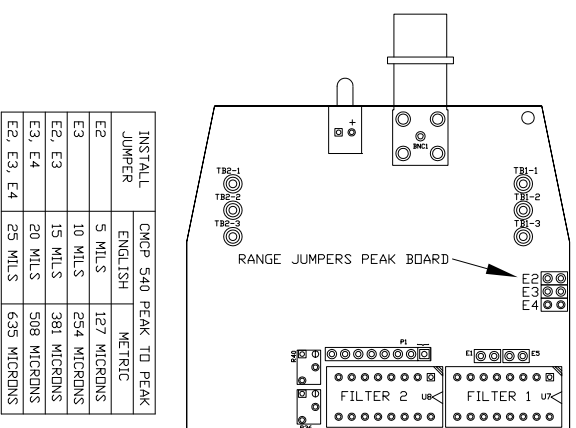


Fig. 6

CMSS 590 Enveloping Transmitter Range Jumper Selections

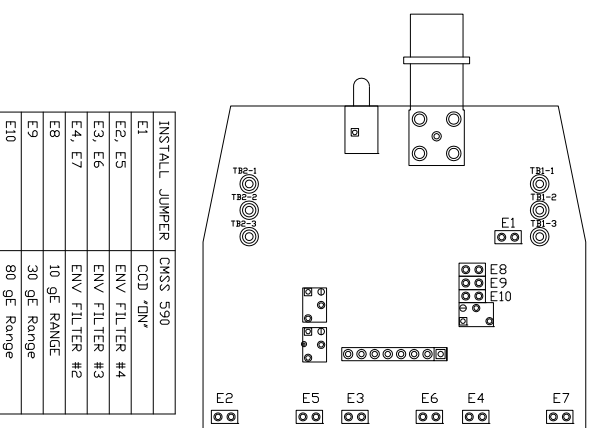


Fig. 7

Alarm Board Jumper Selections (Monitor Versions Only)

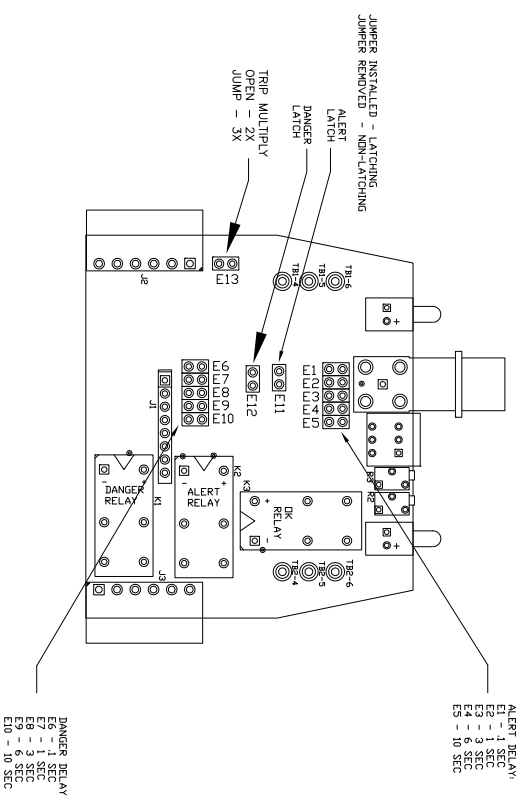


Fig. 8

Basic Troubleshooting

OK Light Off:

1. Check for +24 VDC Power at bottom left terminals.
2. Check to be sure Sensor is wired properly to top left terminals.
3. OK Light will turn on after 30 seconds if sensor is OK.
4. If OK Light stays out check sensor bias or replace sensor.
 - a. Accelerometer DC Bias should be between 4.0 to 16.0 VDC
 - b. Eddy Probe DC Gap should be between -3.0 and -18.0 VDC
5. If sensor good (DC bias or gap OK) replace transmitter.

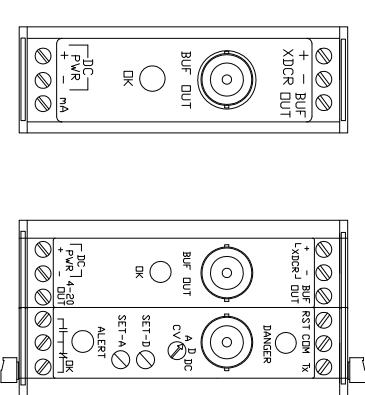
No 4-20 mA Output:

1. Check to be sure OK Light is "On" (see above)
2. Disconnect field wires and verify 4-20 mA directly with DVM.
3. If OK Light is "On" and there is no 4-20 mA output replace transmitter.

Erratic or Noisy Readings:

1. Check to be sure sensor shield is landed with sensor common.
2. Verify sensor shield is not grounded at each end.
3. Check for ground loops in system.
4. Verify sensor and cabling installation is in conduit and away from AC.
5. If radios causing interference, be sure to use metal enclosure and conduit.

Quick Start Guide CMCP 500 Series Transmitters and Monitors



Transmitter

Monitor

Basic Wiring

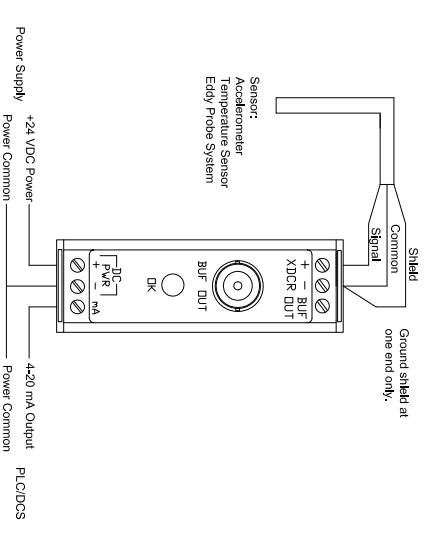


Fig. 1

Transmitter Quick Start:

1. **Connect Sensor:**
Connect Sensor to XDCR terminal at top-left front of unit. If sensor cable is not grounded at sensor connect shield to "Common" terminal. (See Fig. 1)
2. **Connect Power:**
Provide +24 VDC Power from either a local or remote source. On "Power Up" the OK Circuit will delay OK (Green LED) for 30 seconds. (See Fig. 1)
3. **Select Full Scale Range if Required:**
The CMCP 500 is shipped with 0-1.0 in/sec (0-25.0 mm/sec), 0-5 mil (0-125 um), 10 g, or 10 gE range selected. Refer to Fig. 3 to change Full Scale Range.
4. **Connect 4-20 mA Output:**
The 4-20 mA Output is "Source Type". The CMCP 500 Series provides the output current. The PLC or DCS will "Sink" the current. 0.00 Scale = 0.0 mA and Full Scale = 20.0 mA (See Fig. 1).
5. **Buffered Output:**
Sensor "Buffered Output" for connection to Portable Analyzers or other devices is available from the front BNC connector or top right terminal (See Fig. 2).

For additional information the complete Manual and Quick Start is available Online at www.STIWEB.com

Monitor Quick Start:

1. **Connect Relays:**
The Monitor is provided with 3 Relays. (OK, Alert and Danger). Connect Relay wiring per your requirements (See Fig. 8).
2. **Latching or Non-Latching Relays:**
Monitors are shipped in "Non-Latching" configuration. To change to "Latching" adjust jumpers (See Fig. 8). A local or remote momentary contact "Reset Switch" will be needed for "Latching" Relays.
3. **Set Points:**
Setpoints are set using the potentiometers marked "Set-D" and "Set-A". A voltmeter is required for adjustment. The BNC connector at the front on the module will provide a output between 0 and 5 VDC corresponding to 0 to full scale. Adjust the potentiometer to achieve the desired voltage. Example: 50% of full scale is equal to 2.5VDC.
4. **Alert and Danger Delay**
Monitors are preconfigured with 3 second delay. Delay can be changed to provide .1, 1, 3, 6, or 10 second delay (See Fig. 8).
5. **Remote Reset (Optional):**
If the Monitor is configured for "Latching Relays" a remote reset momentary switch can be used to Reset Alarms. Connect between any common terminal and reset terminal.

6. **Trip Multiply (Optional):**
Trip Multiply for startup of machines with critical speeds can be configured with a remote contact and jumper (See Fig. 3).

Transmitter Connections

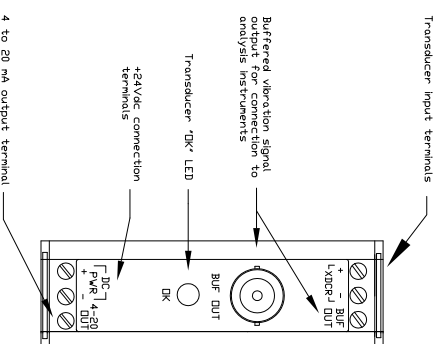
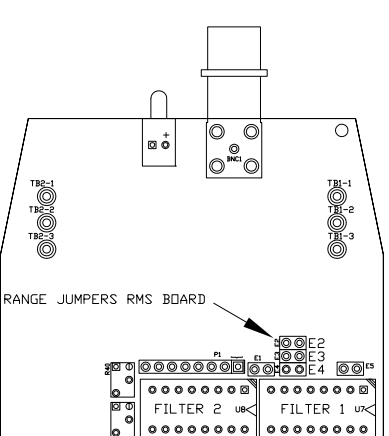


Fig. 2

CMCP 525/530 RMS Transmitter Range Jumper Selections



INSTALL JUMPER	CMCP 525	ENGLISH	CMCP 530	METRIC
E2	5.0 g's	0.5 in/sec	12.5 mm/sec	12.5 mm/sec
E3	10.0 g's	1.0 in/sec	25.0 mm/sec	25.0 mm/sec
E2, E3	15.0 g's	1.5 in/sec	37.5 mm/sec	37.5 mm/sec
E3, E4	20.0 g's	2.0 in/sec	50.0 mm/sec	50.0 mm/sec
E2, E3, E4	25.0 g's	2.5 in/sec	62.5 mm/sec	62.5 mm/sec

Fig. 4

Alarm Board Connections (Monitor Versions Only)

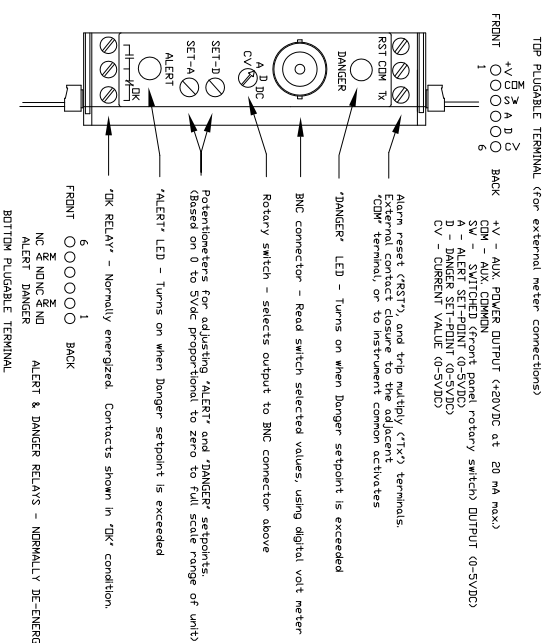
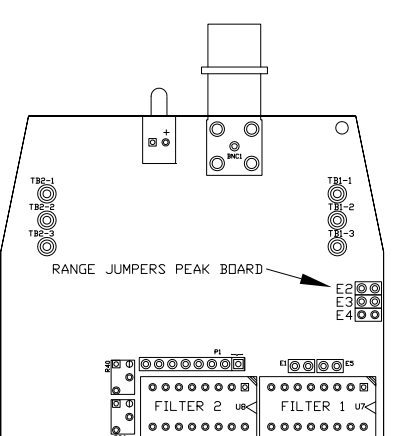


Fig. 3

CMCP 525/530/535 Peak Transmitter Range Jumper Selections



INSTALL JUMPER	CMCP 525	ENGLISH	CMCP 530	METRIC	CMCP 535 PEAK	ENGLISH	METRIC
E2	5.0 g's	0.5 in/sec	12.5 mm/sec	12.5 mm/sec	5 MILS	127 MICRONS	127 MICRONS
E3	10.0 g's	1.0 in/sec	25.0 mm/sec	25.0 mm/sec	10 MILS	254 MICRONS	254 MICRONS
E2, E3	15.0 g's	1.5 in/sec	37.5 mm/sec	37.5 mm/sec	15 MILS	381 MICRONS	381 MICRONS
E3, E4	20.0 g's	2.0 in/sec	50.0 mm/sec	50.0 mm/sec	20 MILS	508 MICRONS	508 MICRONS
E2, E3, E4	25.0 g's	2.5 in/sec	62.5 mm/sec	62.5 mm/sec	25 MILS	635 MICRONS	635 MICRONS

Fig. 5