

## Plug-in transmitters

- ◆ Input and output ranges are field programmable.
- ◆ Bi-polar - Input and output signals.
- ◆ 1.6kV isolation.
- ◆ 0.1% accuracy.
- ◆ Plug-in - DIN rail mount base.
- ◆ Special calibration available.
- ◆ Power Supply: 85~264Vac/dc or 22~85Vac/dc selectable.  
10~28Vac/dc optional.



| MODEL         | DESCRIPTION  | PRICE    |   |
|---------------|--|----------|---|
| PI-D          | <b>DC to DC isolating signal transmitter.</b><br>Programmable input ranges from 0~10mV to 150V, 0~200uA to 50mA.<br>Programmable output ranges from 0~500mV to 12V, 0~1mA to 20mA.<br>On board 20Vdc power supply for primary transmitter.   | \$388.00 | DC signal<br><br><a href="http://www.intech.co.nz/pi-d">www.intech.co.nz/pi-d</a>       |
| PI-F          | <b>Frequency to DC isolating signal transmitter.</b><br>Programmable input ranges from 0~0.4 Hz to 40 kHz.<br>Programmable output ranges from 0~500mV to 12V, 0~1mA to 20mA.<br>On board 12Vdc 50mA power supply for primary signal.   | \$488.00 | Frequency<br><br><a href="http://www.intech.co.nz/pi-f">www.intech.co.nz/pi-f</a>       |
| PI-B          | <b>Bridge to DC isolating signal transmitter.</b><br>Programmable input ranges from 0~1mV to 1000mV.<br>Programmable output ranges from 0~500mV to 12V, 0~1mA to 20mA.<br>On board precision 10Vdc 30mA power supply for bridge excitation.  | \$458.00 | Bridge<br><br><a href="http://www.intech.co.nz/pi-b">www.intech.co.nz/pi-b</a>          |
| PI-M          | <b>Maths function, DC to DC isolating transmitter with 3 inputs.</b><br>Programmable V & mA input ranges.<br>Programmable output ranges from 0~500mV to 12V, 0~1mA to 20mA.<br>32 predetermined programmable math functions.<br>120 point user defined curve fitting.                      | \$580.00 | Maths function<br><br><a href="http://www.intech.co.nz/pi-m">www.intech.co.nz/pi-m</a>  |
| PI-RAC        | <b>RS232 adapter cable for connecting the PI-M to a computer.</b><br>Uses Windows Notepad or Excel in conjunction with Windows Hyper Terminal.   | \$260.00 | <a href="http://www.intech.co.nz/pi-rac">www.intech.co.nz/pi-rac</a>                    |
| PI-K          | <b>Resistance to DC isolating transmitter.</b><br>Programmable input ranges from 0~10 ohms to 20k ohms.<br>Programmable output ranges from 0~500mV to 12V, 0~1mA to 20mA.  | \$458.00 | Resistance<br><br><a href="http://www.intech.co.nz/pi-k">www.intech.co.nz/pi-k</a>      |
| PI-P          | <b>Potentiometer to DC isolating transmitter.</b><br>Resistance range from 0~200 ohms to 0~1M ohms.<br>Programmable input span from 0~10% to 0~100%.<br>Elevated zero or suppressed span available.<br>Programmable output ranges from 0~500mV to 12V, 0~1mA to 20mA.                      | \$438.00 | Potentiometer<br><br><a href="http://www.intech.co.nz/pi-p">www.intech.co.nz/pi-p</a>   |
| PI-S          | <b>Set point alarm unit. Two set points, two relay outputs.</b><br>Programmable input ranges from 0~5V to 10V, 0~10mA to 50mA.<br>The action of the two alarm relays is selectable, high, low, window & differential.<br>Selectable N/O-N/C contacts. Adjustable time delay of 0.2~30 sec. | \$498.00 | Set point alarm<br><br><a href="http://www.intech.co.nz/pi-s">www.intech.co.nz/pi-s</a> |
| <b>OPTION</b> |  |          |   |
| LV            | Power supply of 10~28Vac/dc fitted.  | \$75.00  |   |

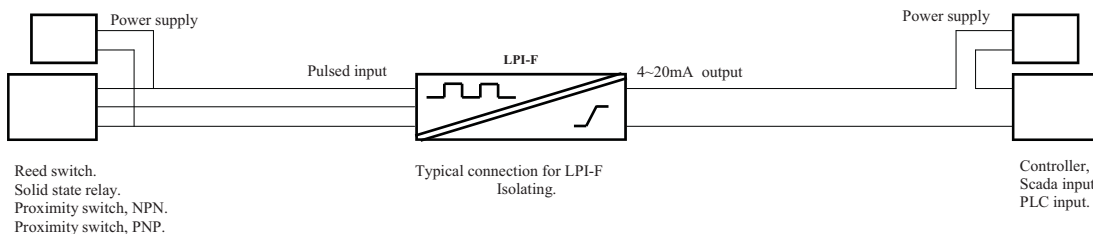
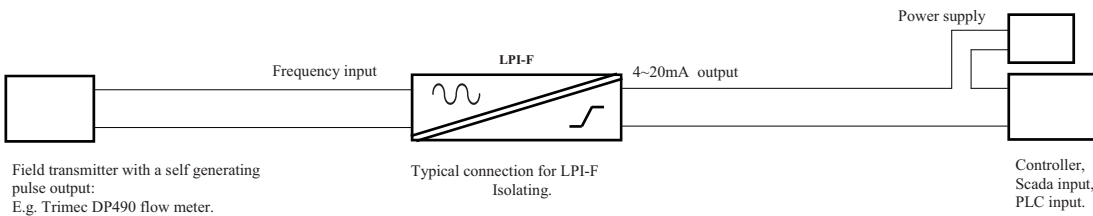
## Frequency to DC Loop powered transmitter



- ◆ Output, 4~20mA loop powered.
- ◆ 2kV isolation.
- ◆ 0.1% accuracy.
- ◆ 40~200mV output test signal.
- ◆ LED indication of loop current.

[www.intech.co.nz/lpi-f](http://www.intech.co.nz/lpi-f)

| <b>Frequency to DC isolating signal transmitter.</b>   |                      | <b>Hz to 4~20mA</b> |
|--|----------------------|---------------------|
| Programmable ranges from 0~15 Hz to 0~10 kHz.<br><br>Input, 2 wire.<br>Sine, Square, Pulse.<br>Uni-polar or Bi-polar: (Signals < 2V pp Bi-polar only).<br>Minimum input signal: 10mVpp @ 100Hz. 100mVpp @ 1kHz. 1Vpp @ 10kHz.<br>Maximum input signal: 100V pp. (100 Hz max for contact closure) |                      |                     |
| Output, 2 wire, 4~20mA loop powered.<br>800 ohms at 24Vdc.   |                      |                     |
| MODEL  | DESCRIPTION          | PRICE               |
| LPI-F-D  | DIN rail mount unit. | \$330.00            |



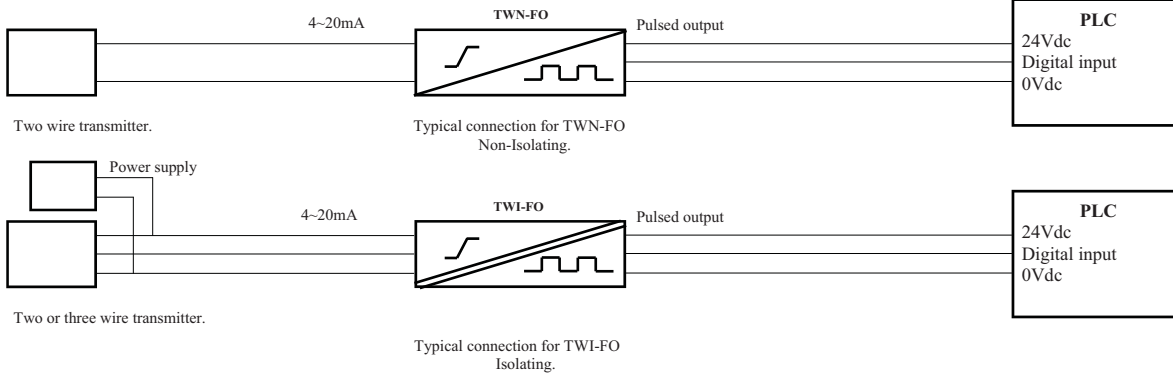
## DC to Frequency Transmitters

| MODEL         | DESCRIPTION  | PRICE    |
|---------------|--|----------|
| <b>TWI-FO</b> | <b>Isolating DC to frequency interface.</b><br>Converts a 4~20mA signal to a frequency for direct conversion into a PLC digital input.<br>LED indication of Hz output.<br>1.6kV isolation.<br>Power supply: 11~28Vdc.<br>Standard input: 4~20mA, others by request.<br>Standard output: 10~1010 Hz, others by request. | \$278.00 |
| <b>TWN-FO</b> | <b>Non-isolating DC to frequency interface.</b><br>As above.   | \$278.00 |

**4~20mA to Hz Converter**



[www.intech.co.nz/tw-fo](http://www.intech.co.nz/tw-fo)



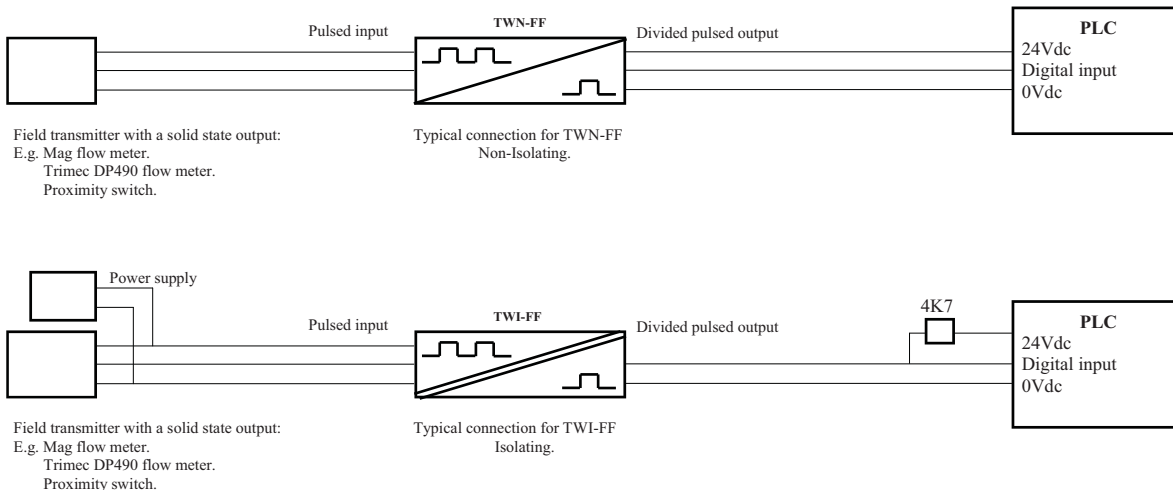
## Frequency to Frequency Transmitters

| MODEL         | DESCRIPTION   | PRICE    |
|---------------|---|----------|
| <b>TWI-FF</b> | <b>Isolating frequency input, divided, to open collector frequency output interface.</b><br>LED indication of Hz output.<br>1.6kV isolation.<br>Power supply: 11~28Vdc.<br>Division factor: 2 to 4096 in 12 binary steps.<br>2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2028, 4096.<br>Input: 5~30Vdc, square wave, (max 100 kHz).<br>Output: Open collector 30Vdc, 100mA Maximum.<br>Square wave, (max 5 kHz).<br>50:50 mark space ratio. | \$278.00 |
| <b>TWN-FF</b> | <b>Non-isolating frequency input, divided, to sink/source 100mA @ 24Vdc frequency output interface.</b><br>As above.  | \$278.00 |

**Hz to Hz Divider**



[www.intech.co.nz/tw-ff](http://www.intech.co.nz/tw-ff)



M Series

DC current simulating meters.

| MODEL | DESCRIPTION  | PRICE    |
|-------|--|----------|
| MCP-2 | <p><b>DC current simulating meter.</b><br/> <i>Displays and generates 0~20mA output by adjusting the on-board potentiometer located behind the front hinged cover.</i><br/> <i>May also switch to monitor 0~20mA input.</i><br/>                     Digits: 3¾ digit LED.<br/>                     Power supply: 110~220Vac.<br/>                     Sensor supply: 24Vdc.<br/>                     Range: 0 to 3999 counts.<br/>                     Output: 0/4~20mA. 15V max.</p> | \$330.00 |
| MCC-2 | <p><b>DC current simulating meter.</b><br/> <i>Displays and generates 0~20mA output by on-board push-buttons located behind the front hinged cover.</i><br/> <i>May also be operated by remote push buttons.</i><br/>                     Digits: 3¾ digit LED.<br/>                     Power supply: 110~220Vac.<br/>                     Range: 0 to 3999 counts.<br/>                     Output: 0/4~20mA. 15V max.</p>   | \$415.00 |



Power quality meter.

|          |  |           |
|----------|--|-----------|
| EPM 7100 | <p><b>Power quality meter.</b></p> <ul style="list-style-type: none"> <li>◆ For factory and building automation.</li> <li>◆ Modbus RTU protocol.</li> <li>◆ True RMS conversion.</li> <li>◆ Field programmable PT / CT ratio.</li> <li>◆ Accuracy up to 0.2%.</li> <li>◆ Memory for all setup and energy data.</li> <li>◆ Comprehensive self test diagnostics.</li> <li>◆ Wide power supply range 80~260Vac/dc.</li> <li>◆ 2KV RMS input / power isolation.</li> </ul> | \$440.00  |
| OPTION   |  | Add price |
|          | <b>DC power supply.</b> 12V, 24V, 48V or 125Vdc.   | \$70.00   |



The EPM 7100 power meter is conceptualised as an intelligent and revolution to the traditional single function power meters. The EPM 7100 is a new compact (96 \* 48mm), electronically advanced and programmable rotating display metering device. It is the answer to the future generation of electrical metering needs and methodology. The EPM 7100 is able to replace many different units of conventional analogue or digital instruments. The parameters such as **Amp, Volt, KVA, KW, PF, KWH, KVarH, Freq, etc.** can be displayed rotating automatically: or changed manually by keypad on meter head. This saves on wiring usage and reduces the cost on metering needs.

PS Series

Analogue to frequency transmitter.

| MODEL  | DESCRIPTION  | PRICE     |
|--------|--|-----------|
| PSG    | <p><b>Programmable DC to Frequency transmitter.</b><br/>                     Plug-in module. DIN rail mount.<br/>                     Power supply: 110~220Vac.<br/> <b>Input:</b> Many ranges, programmable by dip switches.<br/>                     ~volts, From 0~20mV to 0~200Vdc.<br/>                     ~amps, From 0~200µA to 0~50mAdc.<br/> <b>Output:</b> Many ranges, programmable by dip switches.<br/>                     From 0~0.1Hz to 0~10kHz.<br/>                     Open collector, 5~30Vdc. 50mA.</p> | \$365.00  |
| OPTION |  | Add price |
|        | <b>DC power supply.</b> 12V, 24V or 48Vdc.   | \$70.00   |

DC to frequency transmitter

