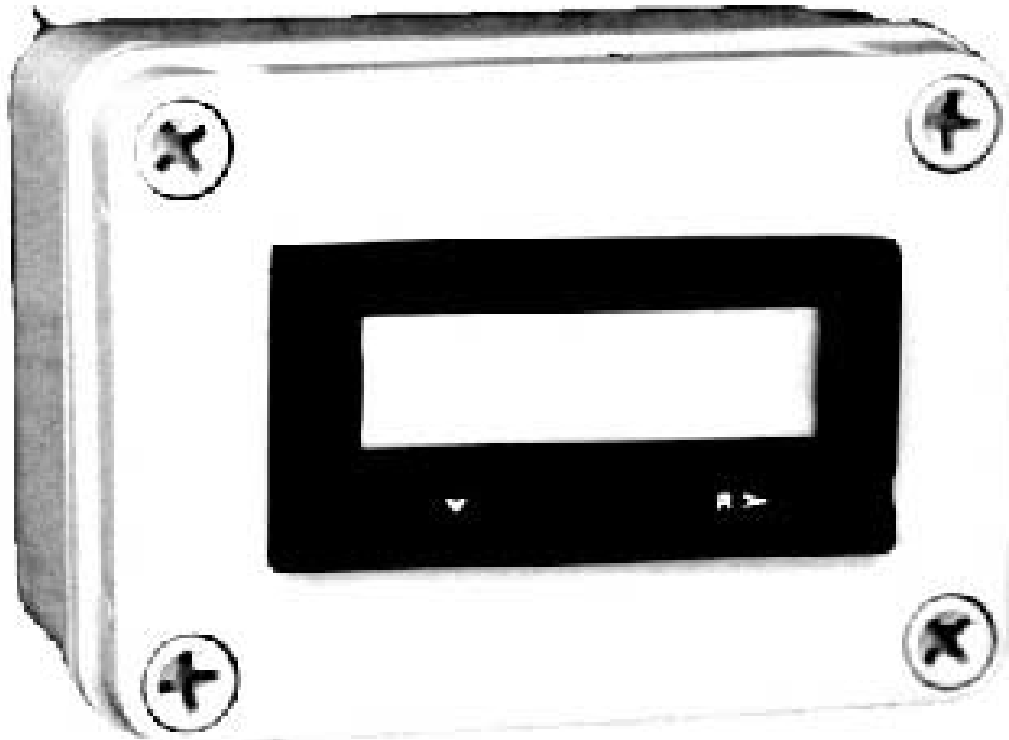


# FPC-103

## FACTORING PULSE COUNTER AND DISPLAY



- Large, easy to read 8-Digit LCD Display with backlighting capability
- Programmable input scale factor
- CMOS Circuit design for low power consumption
- 3 Volt Lithium battery operates 5 years
- Reset from front panel or remote
- NEMA 4X rated for use in washdown environments
- Accepts various forms of input pulse signals.

## **Miners & Pisani, Inc.**

PO Box 1298  
Issaquah, WA 98027  
(800)528-3813

2010 Farallon Drive  
San Leandro, CA 94577  
(800)446-8181

# FPC-103

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## DESCRIPTION

Housed in a NEMA 4X enclosure, the FPC-103 is an ideal choice for advanced count totalization applications. An input scale factor allows input pulses to be displayed as meaningful engineering units, and dual input channels enable add/subtract counting.

The 8 digit supertwist LCD display provides easy viewing at a glance. For conditions where ambient light is poor, the display can be backlit by connecting an external DC (10-28 Volt) power supply. The unit can accept NPN and dry-contact inputs for low speed (30Hz) counting and PNP or square wave square wave signals for high speed applications up to 10 kHz.

Powered by either one or two replaceable 3V Lithium batteries, this unique design allows for a new battery to be installed before removing the old one, thereby retaining count total and program data. A low battery indicator appears on the screen to provide a warning several weeks before the end of battery life. If two batteries are used simultaneously, the expected life doubles to ten years.

Setup is quick and simple as the two front panel keys are used to scroll through four menu choices.

Distributed by:

## SPECIFICATIONS

### High Speed Input (Terminals 2 and 7):

Type: PNP Signal or square wave pulse  
Count Speed: 10 kHz max (50% duty cycle)  
Logic: Low < 1.0 VDC, High > 2.0 VDC  
Minimum Pulse Width: 45 microseconds  
Maximum Input: 28VDC  
Impedence: 15 Kohm to common

### Low Speed Input (Terminals 3 and 6):

Type: NPN Signal or contact closure  
Count Speed: 30 Hz max (50% duty cycle)  
Logic: Low < 1.0 VDC, High > 2.0 VDC  
Minimum Pulse Width: 12 ms  
Maximum Input: 28VDC  
Impedence: 1 Mohm to battery

### Front Panel Enable Input (Terminal 5):

Type: NPN Signal, Contact Closure; level sensitive  
Maximum Input: 28VDC

### Remote Reset Input (Terminal 4):

Type: NPN Signal, Contact Closure; edge sensitive  
Frequency Response: 30 Hz (50% duty cycle)  
Maximum Input: 28VDC

### Power Source:

Type: Single or dual 3V Lithium battery  
Expected Life (typical): 5 years -one battery, 10 years-two batteries  
Low Power Indicator: "Low Bat" flashes on display approx. 2 weeks prior to end of battery life.

### Display:

Type: Supertwist LCD for use with or without backlighting.  
Number: 8 digits  
Height: 12 mm  
Backlighting: Green Illumination over whole vieable area with a 10 to 28 VDC supply to Terminal 8.

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