

# UNIPULSE CORPORATION

## F860 Weighing Controller

F860 Desktop weighing Controller with its convenient and unique design features a special "Truck scale" program. It's used to record incoming and outgoing weighs of a specific ID and provide a printed Transaction Record. This record contains Year-Month-Date, ID number, Trade number, Code number and Gross-Tare-Net that can be printed out by our M290 Slip printer.

Up to 200 8-digit ID numbers can be put in memory and stored for up to seven years. Up to 100 transactions can be stored in temporary memory. Once a transaction is complete it is deleted from temporary memory. All transactions can be stored to an optional memory card that fits a standard PCMCIA slot and read on MS-DOS.

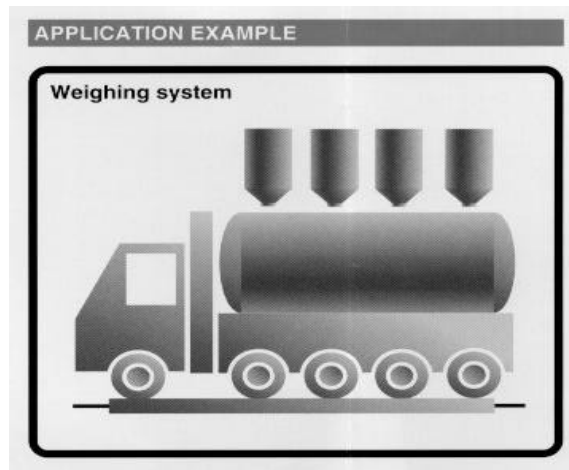
High speed A/D conversion and powerful digital processing capabilities of 100 times per second allow for rapid response to input signal. Low-pass and digital filters keep the display stable with intense vibration.

2-wire serial interface SI/F is standard on the F860. This allows for easy connection to Unipulse remote displays. Option RS-232C, Printer and Memory Card interface are available.



## FEATURES

- Employs a large high-intensity fluorescent display that gives clear weight indication even in harsh environments.
- Full-stroke mechanical keys for easy of operation
- Full digital front panel calibration
- Precise head amplifier for outstanding accuracy (0.1 micron V/D. Celsius)
- Self-Check and Watch-Dog timer function in CPU, ROM and internal circuitry to insure reliability.
- All setting value back-up to non-volatile RAM and C-MOS RAM by lithium battery prevents data loss from A power failure.
- Easily connected to optional slip printer M290 for Transaction record print out
- Secondary calibration with a simple resistor connection



## SPECIFICATIONS

|                                   |   |
|-----------------------------------|---|
| *Load cell excitation:            | DC10V+/-5%  |
| *Load cell current:               | 240mA (8-350 ohm load cells)  |
| *Load cell cabling:               | 4-wire standard, 6-wire with remote sensing   |
| *Zero adjustment range:           | 0 to approx. 2.0mV/V (digital adjustment)   |
| *Span adjustment range:           | 0.3 to 2.0mV/V (digital adjustment)   |
| *Analog input signal sensitivity: | 0.15 micron V/count   |
| *Stability:                       | Zero drift: within 0.1 micron V/D. Celsius RTI (relative to input)<br>Gain drift: 5ppm/D. Celsius |
| *Non-linearity:                   | within 0.01% FS   |
| *Noise:                           | within 0.2 micron Vp-p RTI  |
| *Analog filter                    | Bessel type low-pass filter (-12dB/oct.) 2, 4, 6, 8Hz selectable                                  |
| *Conversion rate:                 | 100 times/sec. (10mS)   |
| *Resolution:                      | 16 bits   |
| *Display:                         | 1/10,000 (Legal for Trade), 1/40,000 expanded   |

## Display

|                          |  |
|--------------------------|--|
| *Display:                | Original Vacuum Fluorescent Display  |
| *Numeric display:        | 8 digits, character height 17mm (0.67 inch)  |
| *Weight value display:   | 5 digits, plus/ Minus sign   |
| *Character Display:      | 5 x 7 dot matrix display   |
| *Unit:                   | Selectable lb, kg, g, t, N or none   |
| *Display frequency:      | 3, 6, 13, 25 times/sec. (internal 100 times/sec.)  |
| *Minimum scale division: | 1 to 100 selectable  |
| *Decimal point:          | Selectable 0, 0.0, 0.00, 0.000   |
| *Scale capacity:         | 5 digits (Up to 99999)   |
| *Center zero:            | 'CZ' turns on when the displayed value is at the center zero.<br>(0+/-1/4 scale).  |
| *Status display:         | Indicated by fixed character display HOLD/ ZALM/ STAB/ CZ/ LOCK/<br>NZ/ LO/ HI/ GRSS/ NET/ TARE/ SP1/ SP2/ SP3/ ZT                                     |
| *Over scale display      | A-D convert input over-range 'Load'<br>Net weight over (5 digits) 'OFL1'<br>Scale capacity plus 9 counts 'OFL2'<br>Gross weight over (5 digits) 'OFL3' |

## CONFIGURATION

- \*Setting method: Full stroke mechanical keys
- \*Memory: Initial set values – NOV RAM (Non-volatile RAM)  
Other set values – C-MOS RAM buck-up by a lithium battery (effective More than 7 years depending on operating condition)
- \*Protection of set values (LOCK) Initial set values and calibration can be protected from mis-operation.

## INTERFACE

- \*SI/F 2-wire serial interface Connects controller to printers and remote displays (up to 3 units)
- \*RS-232C communication interface Weight data and status can be read by a host computer.  
(option)
- \*Memory card interface (option) Fits standard PCMCIA slot
- \*Printer Interface (option) For M290 or TM295

## GENERAL SPECIFICATIONS

- \*Voltage input: AC100V. 120V. 200V or 220V +10%-15% 50/60Hz
- \*Power Consumption: Approx. 15VA
- \*Operating temperature: -10 ~ +40D. Celsius (+14 ~ 104D. Fahrenheit)
- \*Storage temperature: -40 ~+80D. Celsius (-40 ~ 176D. Fahrenheit)
- \*Humidity: <85% RH (non-condensation)
- \*Dimension: 196W x 106H x 340D mm (7.71 x 4.17 x 13.39 inch)
- \*Weight: Approx. 2.8kg (6.17lb)

