



# PROCESS WEIGHT CONTROLLER

# applications

- Process Control
- **Inventory Management Modes**
- **Integrated Batch Control**
- Data Management
- Truck Scale I/O Weighing
- Multiple Weigh Systems
- Fieldbus/Ethernet Connectivity
- **OEM Defined Programs**



# features

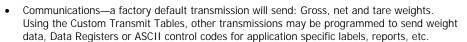
- **Programmable Macros**
- **Programmable Databases**
- **Programmable Data Registers**
- VFD or LCD Display
- Remote Display Mode
- Stainless Swivel Bracket or **Panel Mount Option**

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### Unparalleled Performance, Value and Quality!



- Input Interpreter Tables are programmed to receive RS232 serial data and perform a specific task, i.e., a bar code scanner scans a formula #, the data is received into an input interpreter table and invokes a macro that recalls target weights.
- Display— The Model 560 offers a VFD, 7 segment, 0.75" (19mm), 6 digit weight display with a 2 line x 5 character VFD status and prompting display. The Model 562 offers an LCD, 8 line x 40 character graphic display that is backlit with three
- Enclosure—NEMA 4x (IP66), stainless steel with swivel bracket or panel mount options.

#### Programmable Flexibility... Easy Operation!

different font sizes.

- Macros—100 programmable macros, applies the principles of Boolean logic in a sequential structure, provides a method of performing repetitive keystrokes and operations, simplifies indicator use by automating indicator operation.
- Database—100 programmable databases are used to manage critical application data. This powerful feature stores weight information and other user defined Data Registers such as part numbers, formulas, and more. 18 functions include store, recall, sort, upload, and others.
- Data Registers—100 programmable data registers can be defined as an integer, unsigned integer, float or string. Common data registers include part number, lot#, Operator ID, commodity code, and other user definable parameters.

Innovative Measurement Solutions





#### performance

Calibration:

Digital Filter: Units of Measure: Custom Units:

Zero Adjustment: Span Adjustment: Non-Linearity:

Excitation Power:

Time/Date Clock:

Warranty:

Operating Temperature:

Input Signal Connection:

Bridge Excitation Current:

Bridge Excitation Voltage:

Display Resolution: 100,000d (+/-500,000 internal; 20-bit) Keypad: A/D Conversation Rate: 22-key; Durable elastomeric rubber 60 Hz Flash Memory:

1 MB

Selectable; 5-point Linearization; Accepts Keypad Entry of Actual Load Cell mV/V Full Scale Value

FIR (Finite Input Response); w/ Selectable Display Update Rate Four; User Can Define per Scale Channel (lbs, kg, gal, t/hr) Two; User Can Define per Scale Channel (i.e. Troy Oz, kN, etc.)

Selectable; 0.01—100% Full Scale Selectable; 0.1-20mV/V

0.005% Full Scale -10°C to +40°C/14°F to 104°F

Powers up to (14) 350 Ohm Bridges; Powers up to (28) 700 Ohm Bridges

4 Conductors: 6 Conductors for Remote Sense

400mA; Short Circuit Protected 10 VDC; Short Circuit Protected Non-volatile; Battery-Backed 2 Years; Limited

#### electrical

Power Input: AC: 90-250 VAC @ 50/60Hz DC: 10-32 VDC Fuse: 0.8A Slo-Blow (AC power)

#### setpoint & I/O (options)

I/O Scan Rate: 16ms (max) 32 (max) Physical (Optional); Additional 16 Logic Level (48 total) AC: 20-240 VAC @ 1A Number of I/O

Output Voltage Rating: DC: 30-60 VDC @2A Input Voltage Rating: AC: 60-250 VAC DC: 3-30 VDC

I/O Timer Resolution:

Remote Contact Input: 2 (max); For TARE, PRINT, START, STOP, etc.; Invokes Macros 6 & 7 (if programmed)

#### communications

RS232 Full duplex (bi-directional); RS485 Multi-drop or 20mA Current Loop (optional) Ports 2 & 3: RS232 Full Duplex (bi-directional); No RTS on Comm Port 3 Modbus™ RTU; ASCII; DeviceNet (optional); ProfiBus (optional) Protocols: Baud Rates: 150 - 58,300K bps Custom Transmit Tables: Input Interpreter Tables: 100 - user defined RS232 output tables 100 - user defined RS232 input tables

# options (1)

Alpha Keyboard -

Dura-Shield

DeviceNet Module (SBM) -

ProfiBus Module (SBM) -

ReFlash Software -

BDM Flash Software -

The SBM Serial Bus Modules are modules are interconnected on an internal serial communications bus.

Multi-Scale Module (SBM) -Up to 3 additional signal inputs can be monitored simultaneously

Analog Output Module (SBM) -Isolated 16-bit analog signal output; Output formats: 0-10VDC, 0-20mA or 4-20mA; Software adjustment of zero and gain settings; Up to 4 analog modules can be installed.

I/O Relay Module (SBM) -8 Variations of Quad I/O boards or 16-position I/O boards; (AC & DC versions configured for 4 Output, 4 Input or 2 Input/ 2 Output); I/O relay specifications detailed above.

Isolated serial communication module replaces RS232 on Port 1; Multi-drop with 251 devices (max); RS485 Module -Half or full duplex up to 4000 feet; 56K bps (max).

20mA Current Loop -Isolated serial communication module replaces RS232 on Port 1; TX - Active or Passive; RX-Passive;

9600 bps (max); 12 VDC; 1000foot loop (max)

Allows alpha character entry into data registers; Examples are product names, part number, and

similar alpha data.

ODVA Approved interface module for fieldbus network; Allows indicator to be slave device on network

PTO Approved interface module for fieldbus networking

0.020" layer of weather resistant Lexan® film with adhesive backing; Applied to the front of the indicator, Dura-Shield keeps the display and keypad clean in hostile environments.

Facilitates the downloading of firmware enhancements via the RS232 port. Facilitates the downloading of firmware enhancements via the BDM port.

(1) Note: Only 1 Serial Bus Module (SBM) and 1 communication module mount in the enclosure (

Additional expansion supported externally).

256K RAM, battery backed, is available to store critical application data

Adds additional 4k of Database storage

(1) Note: Only 1 Serial Bus Module (SBM) and 1 communication module mount in the enclosure (Additional expansion supported externally)

## dimensions

Database Module -

FRAM -

Universal Mount Enclosure Size Approximately 11" W (27.98cm) x 9" H (22.76cm) 9-9.25" W (22.86-23.5 cm) x 8-8.25" H (20.32-20.96 cm) Panel Mount Cutout Size: Weight: 7 lb (3.18kg)