



# 560 562

## 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

#### **Unparalleled Performance, Value and Quality!**

- Communications—a factory default transmission will send: Gross, net and tare weights. Using the Custom Transmit Tables, other transmissions may be programmed to send weight data, Data Registers or ASCII control codes for application specific labels, reports, etc.
- 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 different font sizes.
- Enclosure—NEMA 4x (IP66), stainless steel with swivel bracket or panel mount options.

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

- 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.

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## performance

Display Resolution:	100,000d (+/-500,000 internal; 20-bit)
Keypad:	22-key; Durable elastomeric rubber
A/D Conversion Rate:	60 Hz
Flash Memory:	1 MB
Calibration:	Selectable; 5-point Linearization; Accepts Keypad Entry of Actual Load Cell mV/V Full Scale Value
Digital Filter:	FIR (Finite Input Response); w/ Selectable Display Update Rate
Units of Measure:	Four; User Can Define per Scale Channel (lbs, kg, gal, t/hr)
Custom Units:	Two; User Can Define per Scale Channel (i.e. Troy Oz, kN, etc.)
Zero Adjustment:	Selectable; 0.01—100% Full Scale
Span Adjustment:	Selectable; 0.1-20mV/V
Non-Linearity:	0.005% Full Scale
Operating Temperature:	-10°C to +40°C/14°F to 104°F
Excitation Power:	Powers up to (14) 350 Ohm Bridges; Powers up to (28) 700 Ohm Bridges
Input Signal Connection:	4 Conductors; 6 Conductors for Remote Sense
Bridge Excitation Current:	400mA; Short Circuit Protected
Bridge Excitation Voltage:	10 VDC; Short Circuit Protected
Time/Date Clock:	Non-volatile; Battery-Backed
Warranty:	2 Years; Limited

## electrical

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

## setpoint & I/O (options)

I/O Scan Rate:	16ms (max)
Number of I/O:	32 (max) Physical (Optional); Additional 16 Logic Level (48 total)
Output Voltage Rating:	AC: 20-240 VAC @ 1A DC: 30-60 VDC @2A
Input Voltage Rating:	AC: 60-250 VAC DC: 3-30 VDC
I/O Timer Resolution:	10ms
Remote Contact Input:	2 (max); For TARE, PRINT, START, STOP, etc.; Invokes Macros 6 & 7 (if programmed)

## communications

Port 1:	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
Protocols:	Modbus™ RTU; ASCII; DeviceNet (optional); ProfiBus (optional)
Baud Rates:	150 - 58,300K bps
Custom Transmit Tables:	100 - user defined RS232 output tables
Input Interpreter Tables:	100 - user defined RS232 input tables

## options <sup>(1)</sup>

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

<ul style="list-style-type: none"> <li>Multi-Scale Module <sup>(SBM)</sup> -</li> <li>Analog Output Module <sup>(SBM)</sup> -</li> <li>I/O Relay Module <sup>(SBM)</sup> - 4 Input or 2 Input/ 2</li> <li>RS485 Module -</li> <li>20mA Current Loop -</li> <li>Alpha Keyboard -</li> <li>DeviceNet Module <sup>(SBM)</sup> -</li> <li>ProfiBus Module <sup>(SBM)</sup> -</li> <li>Dura-Shield -</li> <li>ReFlash Software -</li> <li>BDM Flash Software -</li> <li>Database Module -</li> <li>FRAM -</li> </ul>	<p>Up to 3 additional signal inputs can be monitored simultaneously</p> <p>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.</p> <p>8 Variations of Quad I/O boards or 16-position I/O boards; (AC &amp; DC versions configured for 4 Output, Output); I/O relay specifications detailed above.</p> <p>Isolated serial communication module replaces RS232 on Port 1; Multi-drop with 251 devices (max); Half or full duplex up to 4000 feet; 56K bps (max).</p> <p>Isolated serial communication module replaces RS232 on Port 1; TX - Active or Passive; RX-Passive; 9600 bps (max); 12 VDC; 1000foot loop (max).</p> <p>Allows alpha character entry into data registers; Examples are product names, part number, and similar alpha data.</p> <p>ODVA Approved interface module for fieldbus network; Allows indicator to be slave device on network</p> <p>PTO Approved interface module for fieldbus networking</p> <p>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.</p> <p>Facilitates the downloading of firmware enhancements via the RS232 port.</p> <p>Facilitates the downloading of firmware enhancements via the BDM port.</p> <p><sup>(1)</sup> Note: Only 1 Serial Bus Module (SBM) and 1 communication module mount in the enclosure ( Additional expansion supported externally).</p> <p>256K RAM, battery backed, is available to store critical application data</p> <p>Adds additional 4k of Database storage</p> <p><sup>(1)</sup> Note: Only 1 Serial Bus Module (SBM) and 1 communication module mount in the enclosure (Additional expansion supported externally).</p>
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## dimensions

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