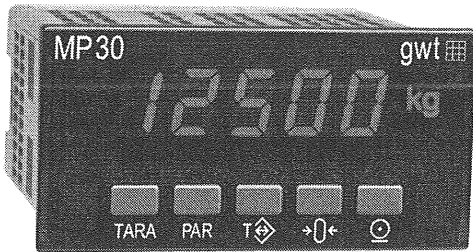




MODEL MP30 - 1/8 DIN DIGITAL WEIGHT INDICATOR



- DIRECT INTERFACE TO LOAD CELLS (4 X 350 OHM)
- FAST 20 READINGS/SEC UPDATE RATE
- DUAL RANGE INPUT: ± 24 mV OR ± 240 mV
- SELECTABLE 5 VDC OR 10 VDC BRIDGE EXCITATION

- BACKLIGHTED WEIGHT UNITS INDICATOR
- PROGRAMMABLE AUTO-ZERO TRACKING
- TARE AND ZERO FUNCTIONS
- MAX AND MIN READING MEMORY
- PROGRAMMABLE INPUT AND OUTPUT RESPONSE TIMES
- INTEGRATOR/TOTALIZER
- THREE PROGRAMMABLE DIGITAL CONTROL INPUTS
- FOUR SETPOINT ALARM OUTPUTS (W/Plug-in card)
- COMMUNICATION AND BUS CAPABILITIES (W/Plug-in card)
- ANALOG OUTPUT SIGNAL (W/Plug-in card)
- PC SOFTWARE AVAILABLE FOR INDICATOR CONFIGURATION
- NEMA 4X/IP65 SEALED FRONT BEZEL
- UNIVERSAL AC OR 24 V SUPPLY OPTION



GENERAL DESCRIPTION

The MP30 is a high accuracy yet compact digital indicator suitable for simple weighing and control applications. The 5 digit readout employs advanced technology for stable, drift free readout while incorporating features that provide application flexibility now and in the future with field plug-in option cards. Option cards enhance the indicator functions, affording Alarm outputs, Linear DC signal output and two-way Serial Communications.

The weight Indicator has two bipolar input ranges: ± 24 mV and ± 240 mV. The built-in bridge excitation is of low-drift design and is selectable for 5 VDC or 10 VDC output. The indicator can drive 4, 350 ohm load cells. Calibrating the indicator is easy due to the choice of scaling procedures: Either 1) Apply calibration weights to the weighing system or 2) Directly key-in data based upon known load cell calibration data.

The indicator has a simple five button keypad. The key functions are: Weight display select, Parameter Access, Tare In/Out, Acquire Zero, and Print Ticket. Additionally, three of these keys can be programmed for different functionality.

The indicator provides readout selections of Brutto/Gross Weight, the Net weight and the Tare Weight. The Tare Weight can be acquired automatically by a single key-press or via a keypad direct entry.

The indicator also has a means of recording the Max and Min reading, as well as having a Totalizer feature. The totalizer provides either a free running accumulation of total mass flow; or keeps account of total batch weight when adding individual ingredients.

The indicator has four setpoint outputs, implemented on Plug-in cards. The Plug-in cards provide dual FORM-C relays (5 A), quad FORM-A relays (3 A) or either sinking or sourcing quad open collector logic outputs. The setpoint alarms can be configured in modes to suit a variety of control and alarm requirements.

- High and low absolute, high and low deviation and band acting
- Balanced or unbalanced hysteresis
- On and off delay timers

- Auto reset or latching modes
- Reverse phase output and/or panel indicator
- Selection of alternate list of setpoint values
- Tracks gross or net weight

Plug-in cards also facilitate bus communications. These include RS232, RS485 and DeviceNet. Readout values and setpoint alarm values can be controlled through the bus. Additionally, the indicator has features that allow a remote computer to directly control the outputs of the indicator. This is useful during commissioning phases and diagnostic use. With a communication card installed, set-up software allows configuration from a PC. The configuration data can be saved to a file for later recall.

A linear DC output signal is available as a Plug-in card. The card provides either 20 mA or 10 V signals. The output can be scaled independent of the input range. The output can be used as a control or signal retransmission.

- The features of the linear output card are:
- Output tracks either gross or net weight
 - Programmable output update times

Once the indicator has been initially configured, the parameter list may be locked out from further modification in its entirety or only the setpoint values can be made accessible.

The indicator has been specifically designed for harsh industrial environments. With NEMA 4X/IP65 sealed bezel and extensive testing of noise effects to CE requirements, the indicator provides a tough and reliable local readout.



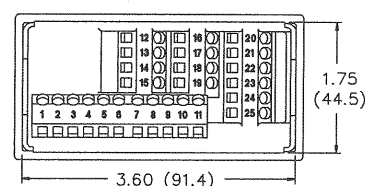
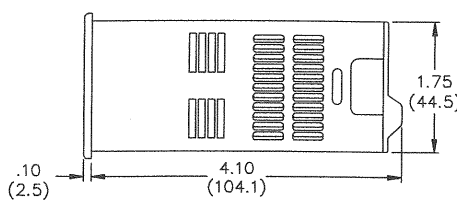
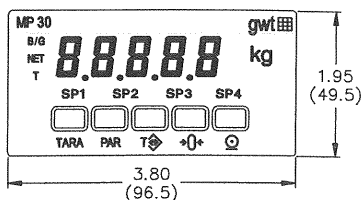
CAUTION: Read complete instructions prior to installation and operation of the unit.



CAUTION: Risk of electric shock.

DIMENSIONS In inches (mm)

Note: Recommended minimum clearance (behind the panel) for mounting clip installation is 2.1" (53.4) H x 5.0" (127) W.



This is a “Table of Contents preview” for quality assurance

The full manual can be purchased from our store:

[https://the-checkout-tech.com/manuals/sartorius/MP-30 operating manual.html](https://the-checkout-tech.com/manuals/sartorius/MP-30%20operating%20manual.html)

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