DESCRIPTION

The Model 1080 is a compact panel-mount indicator/controller featuring modern communications protocols and data connectivity methods. It has the ability to grow with operational needs and switch easily from job to job.

This unit combines the capabilities of a process control interface and data management system for general weighing applications that utilize most standard and custom-configured weighing platforms, such as bench and floor scales.

The bright LED display with 14 mm (0.56 in) digits allow operators to view weights with a quick glance.

Control and Communication

Standard Fieldbus Interfaces:

- Ethernet 10/100
  - ModBus/TCP
  - TCP/IP
  - SMTP
  - DHCP
  - Ethernet/IP™
- PROFIBUS® DP
- DeviceNet™
- USB Device
- 0-5V Analog Output Option

With its built-in network interfaces (Ethernet 10/100, PROFIBUS® and DeviceNet™), the 1080 indicator/controller is capable of sharing data in tank weighing and truck scale applications.

Other Connectivity:

The 1080 connects to printers, remote displays and computers.

Specialized Applications

**Batching routines:** The 1080 can provide ingredient control through PLC interface or set point control.

**Counting routines:** The 1080 can display the number of pieces or average piece weight along with gross, net or tare weights.

**Peak weight:** If a maximum weight reading is required, the 1080 can capture and display the peak measurement of stable weights.

**Process control:** The indicator is equipped with three setpoint controls to interface with relays for automated mixing or blending operations.

Added Performance Features

- The Model 1080 can serve as a remote display in applications where weights must be read in two locations.
- Weight information can be transmitted to peripheral printers and/or computers through the indicator’s dual communication ports. Information format may be customized and can include time and date.
- The IP66-rated (NEMA 4X) enclosure ensures reliable, continuous operation in dusty environments.
- An optional remote foot control can be added, giving the operator hand-free control of common scale functions (Zero, Print, Tare, Units or F1).
**SPECIFICATIONS**

**Power requirements**
9-36 VDC @ 5A

**Excitation**
± 5 volts DC
Supports up to eight 350-ohm weight sensors

**Analog signal input range**
± 125 mV

**Analog signal sensitivity**
0.2 µV/V/divisions minimum
1.0 µV/V/divisions recommended

**Calibration**
2 to 5 points stored

**Operational keys**
Seven keys: Tare, Select, Zero, Print, Units, F1, On/Off

**Operational annunciators**
Center of Zero, Motion, Gross, Net, Tare, Units of measure (LB, KG), Print, Pt Tare

**Display**
Seven-digit, seven-segment, 0.56 inch (14 mm) high, LED

**Display rate**
Selectable (1, 2, 5, 10)

**Analog to digital conversion rate**
100 times per second

**Unit of measure**
Pounds, kilograms, custom

**Capacity selections**
9,999,999 with decimal located from zero to five places

**Incremental selections**
Multiples and sub-multiples of 1, 2, 5

**Programmable selections**
Zero range, motion detection, automatic zero tracking, five-point linearization.

**Time and date/RAM**
Battery backed up real time clock and RAM standard

**Internal resolution**
67,108,864 counts per mV/V per second

**Harmonizer™ digital filtering**
Fully programmable to ignore noise and vibration

**Standard inputs**
Three logic level inputs for: Zero, Print, Tare, Units and F1

**Standard outputs**
10/100 Ethernet (Modbus/TCP, TCP/IP, SMTP, DHCP, Ethernet/IP)
Profibus DP
DeviceNet
Two serial ports
RS-232/422/485, SensorComm
RS-232
USB Device
Three cutoff outputs
Three digital inputs, TTL or switch

**Serial Command Inputs/Outputs**
Programmable serial response to ASCII character input
SMA protocol, Broadcast
22 configurable print formats

**Self diagnostics**
Display, keys, inputs, outputs, serial port, A to D converter

**Circuitry protection**
RFI, EMI, and ESD protection

**Options**
Analog output (0-5, 0-10VDC; 4-20, 0-20, 0-24mA)
Remote foot control
TIU3
85-265 VAC 50/60 Hz power supply

**Operating applications**
General weighing with accumulation, Batching, Counting, Check weighing, Peak measurement, Remote display

**Operating temperature**
14 to 104° F (-10 to 40° C)
-40 to 140° F (-40 to 60° C) non-legal
Up to 95% noncondensing humidity

**Enclosure**
Stainless Steel, IP66 (NEMA 4X) when panel mounted

**Weight**
2.75 lb, 1.25kg

**Agencies**
NTEP CC# 09-077; Class III/IIIL: 10,000 divisions
OIML (UK/0126/0070)
OIML R61; Class III: 10,000 divisions
Measurement Canada AM-5751C
UL/CUL
CE

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