



1080

Indicator/Controller

Technical Specification

DESCRIPTION

Just one instrument with so much capacity for work

One way to gauge the value of a weighing instrument is to measure its ability to grow and adapt to new processes. The Model 1080 indicator/controller measures up to this challenge by its ability to grow with your needs and switch easily from job to job.

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

Easy to use in general weighing applications, the Model 1080 combines the capabilities of process control interface and data management.

Uncomplicated, the 1080 provides process control and data management to most standard and custom-configured weighing platforms using bench and floor scales.

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

In addition to offering these interfaces, the 1080 connects to printers, remote displays, computers and SensorComm™, the Avery Weigh-Tronix microprocessor-based digital junction box.

An additional feature is the 1080's bright LED display with 0.56" (14 mm) digits, which allows operators to view weights with a quick glance.

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.
- An IP65-rated (NEMA 4X) enclosure when panel mounted ensures reliable, continuous operation in dusty environments.
- An optional remote foot control can be added for improved efficiency in common "lift and weigh" applications, giving the operator hand-free control of common scale functions (Zero, Print, Tare, Units or F-1).



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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 μ V/V/divisions minimum
1.0 μ V/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, Split axle

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

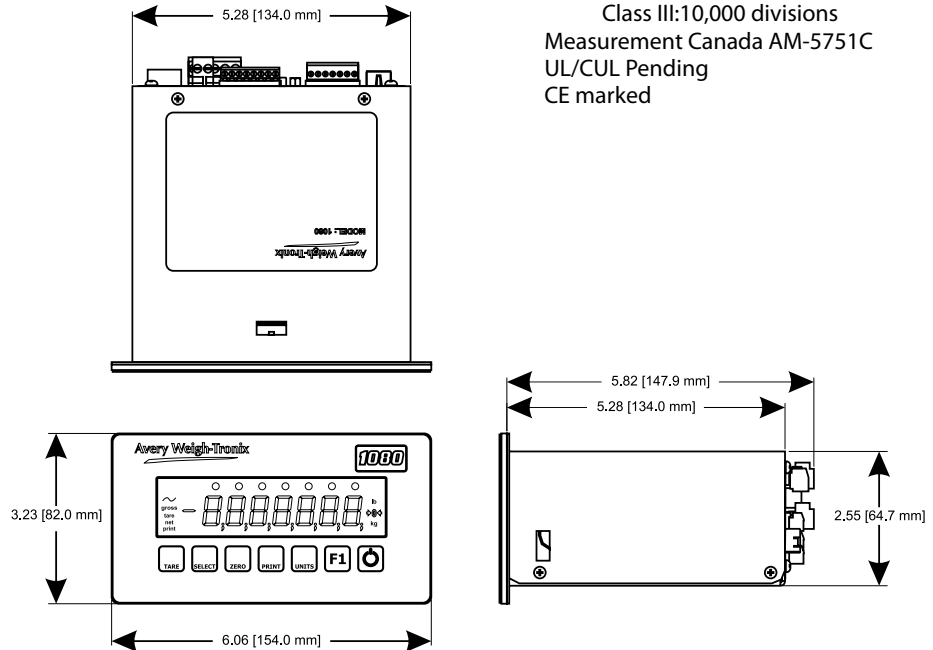
Stainless Steel, IP65 (NEMA 4X) when panel mounted

Weight

2.75 lb, 1.25kg

Agencies

NTEP CC# 09-077
Class III/IIIL:10,000 divisions
OIML Certificate Number Pending
Class III:10,000 divisions
Measurement Canada AM-5751C
UL/CUL Pending
CE marked



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