



## 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 14 mm (0.56 in) 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 IP66-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).



# 1080 Indicator/Controller

## 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  $\mu$ V/V/divisions minimum  
1.0  $\mu$ 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, 14 mm (0.56 inch) 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

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

### Enclosure

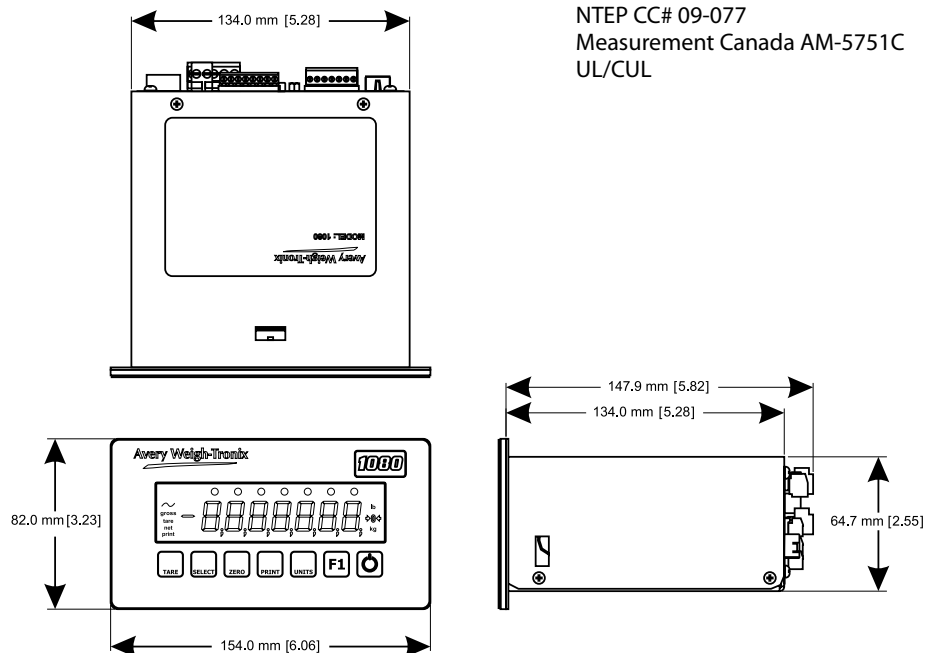
Stainless Steel, IP66 (NEMA 4X) when panel mounted

### Weight

2.75 lb, 1.25kg

### Agencies

OIML (UK/0126/0070), OIML R61, CE, NTEP CC# 09-077, Measurement Canada AM-5751C, UL/CUL



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