



# 1080

## Indicator/Controller

*Technical Specification*

## 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, computers and SensorComm™, the Avery Weigh-Tronix microprocessor-based digital junction box.

### 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).



# 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 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

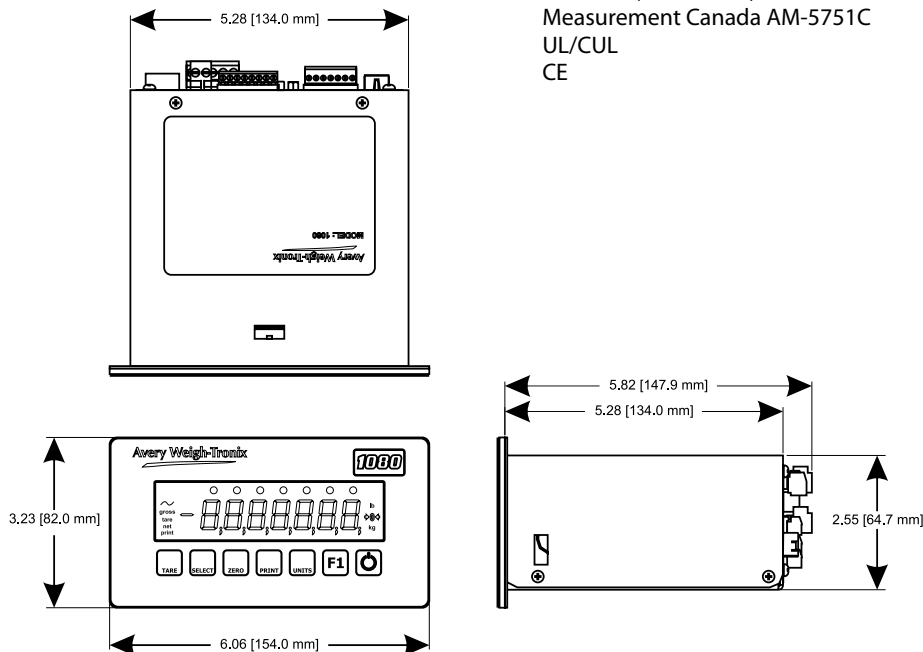
Stainless Steel, IP66 (NEMA 4X) when panel mounted

### 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



### Avery Weigh-Tronix - USA

1000 Armstrong Drive,  
Fairmont, MN 56031-1439 USA  
usinfo@awtxglobal.com  
Toll-Free: (800) 533-0456  
Phone: (507) 238-4461

### Avery Weigh-Tronix - UK

Foundry Lane, Smethwick,  
West Midlands B66 2LP UK  
info@awtxglobal.com  
Phone: +44 (0) 8453 66 77 88  
Fax: +44 (0) 121 224 8183

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# Avery Weigh-Tronix

