

BENCH SCALES

FORKLIFT SCALES

CHECKWEIGHERS

CONVEYOR SCALES

FLOOR SCALES

TRUCK SCALES

RAILROAD SCALES

COUNTING SCALES

SOFTWARE

INDICATORS

JUNCTION BOXES

SIGNAL PROCESSING

MONORAIL SCALES

PRINTERS

REMOTE DISPLAYS

Avery Weigh-Tronix
Indicators



1080

Powerful panel-mount indicator/controller



A compact panel-mount indicator/controller featuring modern communications protocols and data connectivity methods.

Avery Weigh-Tronix

Avery Weigh-Tronix

The 1080 is a compact panel-mounted indicator/controller packed full of communication methods to meet your current and evolving application requirements. The 1080 is a low-cost solution to the weighing portion of your manufacturing process.

1080 Indicator **powerful process control and monitoring**



TAKE PROCESS CONTROL INTO YOUR OWN HANDS

The 1080 indicator/controller from Avery Weigh-Tronix is ideal for panel-mount applications where size and connectivity to industrial networks are important.

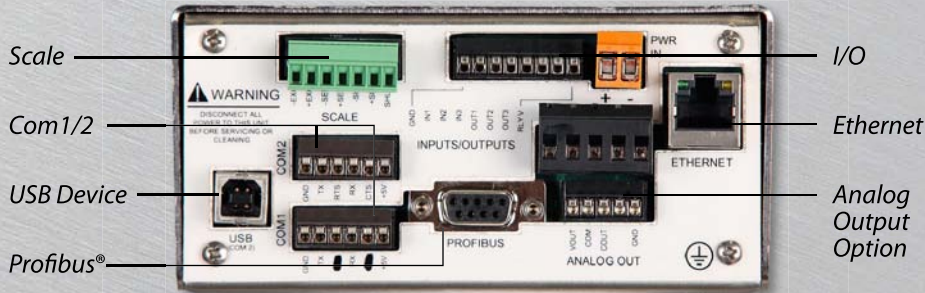
The crisp, bright LED display has easy-to-read weight digits and an array of status annunciators.

Configurable digital vibration filtering is built-in, providing stable readings in the toughest environments.

The 1080 includes a suite of operational applications that can be enabled at time of installation. With the application determined, choose the communication and control technology from the vast number of standard methods available on the 1080.

Configurable print formats allow the 1080 to interface with a variety of printers (including label printers) and remote displays.





The 1080 assures connectivity between old and new network technologies.

VERSATILE DATA CONNECTIVITY

I/O

The 1080 includes an Ethernet port, allowing weight data and control commands to be quickly shared across the room or around the world via an IP network.

USB Device provides connectivity to a PC located near the 1080.

The RS 232/422/485 interface provides data transfers for legacy equipment. RS 422/485 allows for a long interface cable length – useful for remote displays.

Three inputs with configuration choices for Zero, Print, Start, Stop, Tare, Units and Tare Cancel actions when activated by a remote button or even a foot control.

Fieldbus Interfaces

When the application requires connection to a Fieldbus network, the 1080 is the solution. It can communicate from its standard Profibus® or Ethernet 10/100 outputs to your PLC. If your PLC requires ODVA™ Protocols, the 1080 also includes these communication technologies. Network status is displayed by an annunciator located above the weight digits.

on the front panel. When the communication technology requires analog values, the 1080 can be fitted with this option.

On Board Controlling

When batching or filling applications require three or less actuations, the 1080 provides the solution. The 1080 has three set point outputs. When interfaced through the optional TIU 3 relay interface box the 1080 can provide a non-Fieldbus solution for filling containers with bulk material or for sorting/diverting containers that are not meeting weight targets.



The 1080 can interface to virtually any make of PLC.

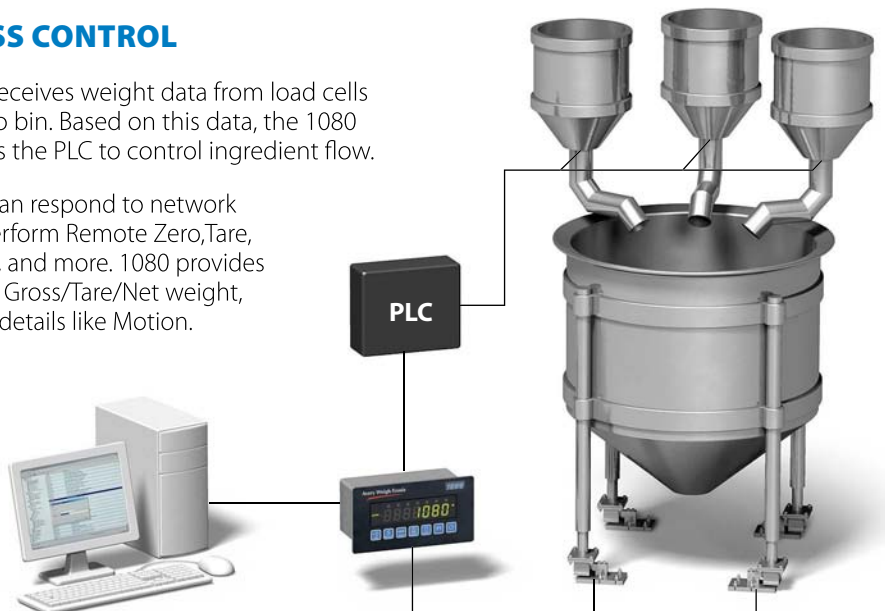
Standard 1080 Fieldbus Interfaces:

- Ethernet 10/100
ModBus/TCP
TCP/IP
SMTP
DHCP
Ethernet/IP™
- Profibus® DP
- DeviceNet™
- USB Device
- Analog Output Option

PROCESS CONTROL

The 1080 receives weight data from load cells attached to bin. Based on this data, the 1080 commands the PLC to control ingredient flow.

The 1080 can respond to network input to perform Remote Zero, Tare, Print, Units, and more. 1080 provides Data Out – Gross/Tare/Net weight, and status details like Motion.





1080 BUILT-IN APPLICATIONS

General Weighing Application

Connect the 1080 to floor scales, bench scales, conveyors, and more. The collected data can be transferred via any of its communication protocols, and the control actuations may be performed by Network Fieldbus devices. The 1080 can be configured for single channel accumulation, allowing a supervisor to view and transmit the total amount of weight measured, such as during a single shift.

Batch Weighing Application

For batch weighing, the 1080 may be connected to vessels (tanks), floor scales, bench scales or conveyors. When the 1080 is configured for batch weighing, a recipe can be enabled consisting of up to three weight ingredients and five timed events. The recipe is the combination of ingredients and timed events. Ingredients can be specific weight values or recipe percentages. Batch mode configurations include Manual, Automatic, Filling, Reverse Filling and Continuous. Activating the Pre Act feature may improve automatic batching applications by compensating for weight of product in free fall.

Checkweighing Application

In checkweighing applications, the 1080 may be connected to floor scales, bench scales or vessel systems. Configuring the target values can be performed by either entering the upper and lower limits for the product to be weighed, or via sample mode by placing the target weight onto the scale with the limits set to one division or weight graduation above and below the sample weight. To assist the operator, annunciators above the weight digits provide a visual indication whether weight is Correct, Under or Over. In addition, the 1080 checkweighing application can be configured to perform Standard Deviation or X Bar R statistical data.

```

*****
OVER = 4,600 lb
UNDR = 3,200 lb

OVER = 4
UNDR = 2
ACPT = 9
AVG = 4,8823 lb
HIGH = 4,883 lb
LOW = 3,882 lb
SD = 0,6088
CV = 14,91 PCT
SS = 15
*****
    
```

```

*****
3,601 lb OVER
4,201 lb OVER
3,601 lb OVER
3,601 lb OVER
3,601 lb OVER
3,601 lb OVER
3,601 lb OVER
4,201 lb OVER
3,601 lb OVER
4,201 lb OVER
3,601 lb OVER
3,601 lb OVER
3,601 lb OVER
OVER = 3,200 lb
UNDR = 2,900 lb

AVG = 3,7120 lb
RNGE = 1,200 lb
1 OF 1
*****
    
```

Sample Printouts

Counting Application

The 1080 is most often connected to floor or bench scales for counting applications. Sampling for counting can be configured by bulk method, where the entire sample is placed simultaneously on the scale, or dribble method, where the sample is slowly placed onto the scale. A sequence of key presses displays the Piece Weight, Count Total, and Count Transactions.

Peak Weighing Application

When this application is configured, the 1080 display shows the highest stable weight detected during a weighing cycle. An annunciator above the weight digits provides awareness when the indicator is in this mode of operation.



Split Axle Truck/Transport Application

This application requires the 1080 to be connected to a platform where a truck/lorry moves and stops each time a set of axles is on the scale. The set point outputs can be attached to signal lights informing the driver when to stop and when to pull forward as the weight is captured. Each axle weight is stored. When the entire vehicle weight has been captured, the weight information can be transmitted by one of its communication ports.

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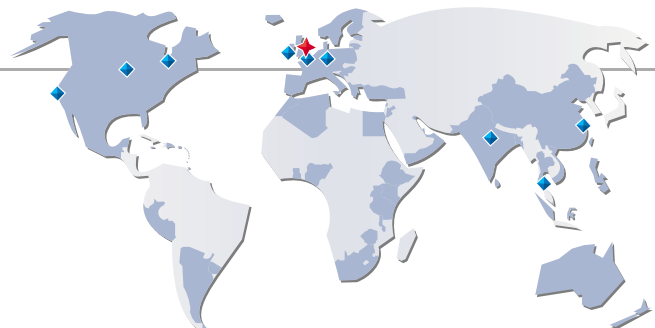
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