

APPLICATIONS

- Gross, tare and net weighing
- Vehicle and railroad weighing
- Multi-container or axle weighing
- Weigh system interface to Distributed Control System
- Batching and process control systems
- Drum filling, tank, hopper, bench and floor scales
- Over/Under check-weighing and material-testing
- Hazardous environments with optional IS barriers

FEATURES

- Mild cold rolled steel with polyurethane texture finish enclosure
- One-inch-high bright, bold, 6-digit LED display
- 10 selectable modes of operation: normal, keyboard tare, print
 weight, subtotal and total, multi-container/axle weighing with total,
 auto weigh and print, auto axle weigh with traffic light control, peak
 hold, over/under checkweigh, and bulkweigh
- Programmable in Scale BasicTM macro language for application development (event driven)
- Simulates A&D, Condec, Weigh-Tronix, Ohaus communication protocols; user configurable protocol
- Selectable 5-point calibration for improved accuracy
- 20-bit A/D with 60 samples/second conversion rate
- Signal sensitivity to 0.1 uV/graduation
- Selectable digital filter to eliminate weight vibrations
- Powers up to 12 x 350 Ω or 24 x 700 Ω load cells
- Two serial ports: RS232, 20mA current loop and RS485
- Digital port for relay control and remote operation
- · Primary and secondary units with conversion factor
- 32K RAM provides 500 ID storage for part, truck, etc.
- Selectable address for multi-drop RS485 network interface

GROSS NET MOTION ZERO B kg

Load Cell Central

MODEL: 422

WEIGHT INDICATOR

OPTIONS

- Time and Date Clock Y2K and Leap Year compliant
- 4-20mA/0-10VDC isolated analog output with 16-bit resolution
- 4-channel relay box for setpoint control or remote operation
- Input/output solid-state relay modules (AC/DC)
- High-speed 100 samples/second conversion rate
- EZ-LINK™ PC software; facilitates configuration and Scale Basic programming; Windows® 3.1/95/98/2000 compatible
- Intrinsic safety barriers for hazardous locations Class I / II / III Div. 1and 2 Groups A-G
- Panel mount kit (for future release)
- DeviceNet PLC communications interface (for future release)
- Profibus PLC communications interface (for future release)







DeviceNet.





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SPECIFICATIONS

STANDARD FEATURES

SCALE SPECIFICATIONS

Display Status Indicators Keyboard Internal Resolution Display Resolution Display Increments **Decimal Point**

Conversation Rate Signal Sensitivity Signal Range Load Cell Excitation

Load Cell Power Auto Zero Tracking Auto Zero Delay Motion Detect Motion Delay

Digital Filter Calibration Watchdog Timer

RFI Protection

RAM

COMMUNICATIONS Serial Port 1 Serial Port 2

Digital Port **Print Formats**

GENERAL SPECIFICATIONS

Power Consumption

Operating Temperature

Weight

Warranty

Relay Box

EZ-LINKTM

Relay Modules

Clock Module

Power

Bright red LED; 1-inch x 6-digit numeric Gross, Net, Motion, Zero, LB, kg (LED) 5-key sealed tactile feel membrane 20-bit A/D Sigma-Delta; 1,048,000 d 200,000 dd industrial; 10,000 dd HB44 Selectable 1, 2, 5, 10, 20, 50 100 Selectable 0, 1, 2, 3, 4 decimal places

60 samples/second typical 0.1 uV/graduation (min) 0.5 mV/V to 6mV/V 10 ± 0.5 VDC (-5 to +5)

12 x 350 Ω or 24 x 700 Ω load cells 0-60 dd in 1/4 dd increments

0-25 seconds In 0.1 second increments

0-60 dd in 1/4 dd increments

0-25 seconds In 0.1 second increments 0-18 selectable filter (DSP) levels Selectable multi-point (up to 5) digital calibration to linearize input signal Enable/disable fault tolerant operation Signal, excitation and sense lines

32K provides 500 ID storage (parts, etc)

Simplex RS232 or 20mA current loop Full duplex RS232, 20ma or RS485 3 inputs and 3 outputs: Low active (TTL) 4 user configurable print formats

110/220VAC ±10% @ 50/60Hz or 12-28

VDC

10W @ 115VAC; 6W @ 12VDC

-10 to +40 °C. 6 lbs (2.72 kg) One-year limited

OPTIONS

Fully isolated 0-10VDC or 4-20mA; 16-bit **Analog Output Module**

> resolution; 650Ω load resistance 4-channel external relay box

Input/output solid-state (AC/DC) relays

Time and Date Clock Y2K and Leap Year

High speed (HS) 100 samples/second conversion rate:

high-speed process control applications PC software; facilitates configuration

and Scale Basic programming

Hazard location intrinsic safety barriers **IS Barriers** Panel Mount Kit

Mounts enclosure to user panel

(for future release)

PLC/COM interface (for future release) DeviceNet **Profibus** PLC/COM interface (for future release)

APPROVALS

NTEP COC# 96-133-A1 UL & CUL pending

MODES OF OPERATION

The 422 is the only digital weight meter in its class that is fully programmable in an easy and flexible macro language called Scale Basic™. In addition to the built-in modes of operation, Scale Basic allows you to customize the operation of the 422 to meet your application requirements. The Scale Basic language provides various commands and functions that include: math operations, I/O control, setpoints, timers, data entry, ID storage, message display, and program sequence control among others. Programming the 422 can be performed through the keyboard or a PC using the optional software that greatly facilitates setup and programming.

MODE 0 - Normal

Basic gross, tare and net weighing

MODE 1 - Keyboard Tare

Same as Mode 0 but tare weight is keyboard entered

MODE 2 - Print Weight and Total

Print multiple gross or net weights and keep a running total for job, lot, etc. Print accumulated gross, tare and net totals at the end

MODE 3 - Print Weight With Subtotal and Total Same as Mode 2 but subtotals can be printed. **MODE 4 - Multi-Container/Axle Weighing**

Push the PRINT button to sequentially number and print a series of weighments. Push the TOTAL button to print and clear the total

MODE 5 - Auto Weigh and Print (Auto Axle Weigh)

Same as Mode 4 but printing is automatic when weights are placed on the scale. Provides traffic light control and trip level configuration

MODE 6 - Auto Axle Weigh (Long Scales)

Same as Mode 5 but previous axles are auto tared

MODE 7 - Peak Hold Mode

Display or print the gross or net peak weight detected

MODE 8 - Over/Under Checkweigh

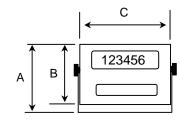
Provides 3 TTL outputs and 2 setpoints to indicate over, under and between weight conditions. Outputs can activate lights or alarms

MODE 9 - Bulkweigh

Provides setpoint entry and relay output to control fill process. Remote start/stop operation with configurable scale empty and draft weights. Use for multiple drafts with subtotal and total printing

DIMENSIONS

A = 7.63" (19.38 cm) B = 7.20" (18.29 cm) C = 8.80" (22.35 cm) D = 2.00" (5.08 cm) E = 3.00" (7.62 cm)





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