

STANDARD FEATURES

Display	VFD 8 digit numeric 0.5" (12.5 mm)
Keyboard	19-key sealed membrane with audible and tactile feedback using dome switch design
Clock Module	Y2K and Leap Year compliant Time/Date
RAM	32K provides 500 ID storage (parts, etc)
Watchdog Timer	Fault tolerant operation

COMMUNICATIONS

Serial Port 1	Full duplex RS232 or 20mA current loop
Serial Port 2	Full duplex RS232 or 20mA current loop
Serial Port 3	Full duplex RS232 or RS485
Digital/Parallel port	6 inputs and 9 outputs; Active low (TTL) Centronics compatible printer port
Print Formats	4 user configurable print formats

GENERAL SPECIFICATIONS

Power	100/240VAC \pm 10% @ 50/60Hz or 12-35 VDC. External A/C power supply
Power Consumption	4W @ 115VAC; 3.7W @ 12VDC
Operating Temperature	-10 to +40 °C.
Enclosure	Stainless Steel NEMA 4
Weight	7.8 lbs (3.54 kg)
Warranty	One year limited

OPTIONS

Digital Summing Module	Four channel DSM for digital calibration
Analog Output Module	Fully isolated 0-10VDC or 4-20mA; 16-bit resolution; 650 Ω load resistance
Relay Box	8 channel Internal relay box
Relay Modules	Input/output solid-state (AC/DC) relays
EZ-LINK™	PC software; facilitates configuration and Scale Basic™ programming
Custom programming	Application specific (Consult factory)

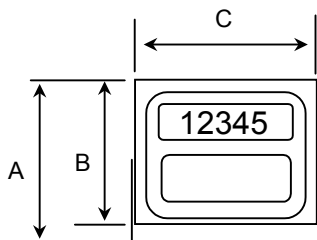
DIMENSIONS

Wall Mount

A = 9.75" (247.65 mm)
B = 8.38" (212.852 mm)
C = 8.88" (225.552 mm)
D = 3.63" (92.202 mm)
E = 4.75" (120.65 mm)

Panel Mount

A = 10.40" (264.16 mm)
B = Not used
C = 10.90" (276.86 mm)
D = 3.56" (90.424 mm)
E = 5.06" (128.524 mm)
Cut out = 8.40" H x 8.90" W (213.36 mm H x 226.06 mm W)



MODES OF OPERATION

The DS200 is the next generation data terminal designed to bring enhancement features to indicators, balances and other basic instruments. This versatile and cost-effective terminal supports many indicators and provides standard features that enable it to interface with many devices including ticket, tape and bar code label printers, scanners and remote displays, solid-state relays and computers to meet a wide range of weighing applications. The compact design of the DS200 combines flexibility and speed with easy-to-use operator interface that incorporates a bright vacuum fluorescent display and full numeric keyboard with large keys. When used with the optional digital summing module (DSM), the DS200 offers a complete digital weighing technology solution using standard analog load cells. This solution eliminates the use of conventional junction boxes, enables digital calibration with out test weights and provides real time diagnostics for individual load cell.

The DS200 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 DS200 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 DS200 can be performed through the keyboard or a PC using the optional EZ-LINK™ software that greatly facilitates setup and programming.

MODE 0 - Normal

Basic gross, tare and net weighing

MODE 1 - Fill to Setpoint

Single setpoint fill with relay output control and weight print

MODE 2 - 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 3 - Vehicle Weigh-In/Out with Totals

Weigh-In/Out program for up to 500 vehicles; Maintains running totals for each vehicle; Provides reporting functions

MODE 4 - Multi-Container/Unattended Axle Weighing

Auto weighs and prints each weight placed on the scale; Each weight is sequentially numbered and accumulated; The total can be printed manually or automatically; Provides traffic light control

MODE 5 - Unattended Axle Weigh (Long Scales)

Same as Mode 4 but previous axles are auto tared

MODE 6 - ID Tare, Print and Total

Provides tare entry and recall by ID; Prints ID, sequence # and GTN weights; Keeps running totals by ID; Provides reporting functions



INDUSTRIAL DATA SYSTEMS

WEIGHING TECHNOLOGY LEADERS

APPLICATIONS

- 7 Built in modes of operation
- Gross, tare and net weighing
- Vehicle and railroad weighing
- Multi-container and axle weighing
- Label formatting and page printing
- Keyboard and ID recall tare weights
- Single step or weigh-in and weigh-out
- Interface to Distributed Control System
- Batching and process control systems
- Integrator for basic balances and indicators

FEATURES

- 8 digit vacuum fluorescent display (VFD) 0.5" (12.5 mm)
- 19-key sealed membrane with audible and tactile feedback
- 7 selectable modes of operation: Normal; Fill to Setpoint; Over/Under Checkweigh; Vehicle Weigh-In/Out with report totals; Multi-Container/Auto Weigh & Print; Unattended Axle Weigh with Traffic Light Control (Short/Long Scales); ID Tare, Print & Total
- Programmable in Scale Basic™ macro language for application development (event driven)
- Continuous serial scale input protocol with interfaces for a wide variety of indicators and balances
- Simulates A&D, Condec, Weigh-Tronix and Ohaus continuous serial output communications protocols; Provides user programmable custom protocol
- Password protection to prevent unauthorized tampering
- Built in diagnostic functions for memory, display and I/O ports
- Primary and secondary units with conversion factors
- Digital/Parallel port for relay control or Centronics printer interface
- 3 full duplex serial ports: RS232, RS485 and 20mA current loop
- Selectable baud rates and data formats
- Barcode scanner/card reader or PC serial input interface
- Time and Date Clock Y2K and Leap Year compliant
- 32K non-volatile RAM provides 500 stored IDs (part, truck, etc.)
- Selectable address for multi-drop RS485 network interface
- When used with the optional digital summing module (DSM), the DS200 offers a complete digital weighing technology solution using standard analog load cells

OPTIONS

- Four channel Digital Summing Module (DSM/SDS200)
- 4-20mA/0-10VDC isolated analog output with 16-bit resolution
- 8 channel relay module for setpoint control or remote operation
- Input/output solid-state relay modules (AC/DC)
- Custom application programming (consult factory)

MODEL **IDS DS200**

DATA TERMINAL



**Stainless Steel DS200
Wall Mount**



**Stainless Steel DS200
Panel Mount**

MADE IN U.S.A.