IDS DT220

THE DT220 IS THE NEXT GENERATION DATA TERMINAL/INDICATOR DESIGNED TO BRING ENHANCEMENT FEATURES AND SIMPLIFY YOUR APPLICATIONS. WITH THE ANALOG SCALE INTERFACE OPTION INSTALLED THE DT220 HAS AN INTERNAL HIGH SPEED WEIGHT INDICATOR THAT PROVIDES REAL TIME DIAGNOSTICS.

IN THE TERMINAL CONFIGURATION THIS VERSATILE AND COST-EFFECTIVE TERMINAL SUPPORTS MANY EXTERNAL 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, PLC AND COMPUTERS TO MEET A WIDE RANGE OF APPLICATIONS.

THE COMPACT DESIGN OF THE DT220 COMBINES FLEXIBILITY AND SPEED WITH EASY-TO-USE OPERATOR INTERFACE THAT INCORPORATES A BRIGHT BACKLIT LCD DISPLAY AND FULL ALPHANUMERIC KEYBOARD WITH LARGE KEYS.

THE DT220 IS FULLY PROGRAMMABLE IN AN EASY AND FLEXIBLE MACRO LANGUAGE CALLED SCALE BASIC™. IN ADDITION TO THE STANDARD MODE OF OPERATION, SCALE BASIC ALLOWS YOU TO CUSTOMIZE THE OPERATION OF THE DT220 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 DT220 CAN BE PERFORMED THROUGH THE KEYBOARD OR A PC USING THE OPTIONAL EZ-LINK™ SOFTWARE THAT GREATLY FACILITATES SETUP AND PROGRAMMING.

STANDARD FEATURES

Display
8 lines x 40 char LCD display with Back Lighting (Green or White available)

Keyboard
63-key sealed membrane with audible and tactile feedback using dome switch design

Clock
Leap Year compliant Time/Date

Flash
32MB provides over 8000 ID storage

Watchdog Timer
Fault tolerant operation

Communications

Serial Port 1
Full duplex RS232 or 20mA current loop

Serial Port 2
Full duplex RS232 or RS485

Serial Port 3
Full duplex RS232 or 20ma current loop

Digital Port
8 TTL outputs & 7 TTL inputs

Parallel port
Centronics compatible printer port

Print Formats
8 user configurable print formats

General Specifications

Power
80/260VAC ±10% @ 50/60Hz

Power Consumption
3W @ 115VAC;

Operating Temperature
-10 to +40°C.

Enclosure
Painted Mild Steel (Stainless Optional)

Weight
7.12 lb (3.22 kg)

Warranty
One year limited

OPTIONS

Analog Scale Module
Internal Load Cell Interface Module

Internal Resolution
24-bit A/D Sigma-Delta; 8,000,000 d

Display Resolution
200,000 graduations (Ind) 10,000 hb44

Display Increments
Selective 1, x2, x5, x10, x20, x50, x100

Decimal Point
Selective 0, 1, 2, 3, 4 decimal places

Conversation Rate
60, 120, 240, 480 or 960 samples/second

Signal Sensitivity
0.1 uV/graduation (min)

Signal Range
0.1 mV/V - 3.4 mV/V

Load Cell Excitation
10 VDC

Load Cell Current
240ma (8, 350 ohm Load Cells)

Auto Zero Tracking
0 to 60 grads, @1/4 grad increments.

Auto Zero Delay
0 to 25 sec, @0.1 sec increments.

Motion Detect
0 to 60 grads, @1/4 grad increments.

Motion Delay
0 to 25 sec, @0.1 sec increments.

Digital Filter
19 settings (0 to 18).

Calibration
Front Panel - zero & span stored in Flash Memory, Selectable multi-point (up to 5)

Analog Output Module
Fully isolated 0-10VDC or 4-20mA; 16-bit Resolution; 650Ω load resistance

Relay Board Module
8-channel External relay box

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

External Keyboard
PS/2 keyboard (wash down available)

EZ-LINK™
PC software; facilitates configuration and Scale Basic™ programming and Data Base maintenance

Custom programming
Application specific (Consult factory)

OPERATION INFORMATION

The DT220 is the next generation data terminal/Indicator designed to bring enhancement features and simplify your applications. With the Analog Scale Interface option installed the DT220 has an internal High Speed Weight Indicator that provides real time diagnostics.

In the terminal configuration this versatile and cost-effective terminal supports many external 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, PLC and computers to meet a wide range of applications.

The compact design of the DT220 combines flexibility and speed with easy-to-use operator interface that incorporates a bright backlit LCD display and full alphanumeric keyboard with large keys.

The DT220 is fully programmable in an easy and flexible macro language called Scale Basic™. In addition to the standard mode of operation, Scale Basic allows you to customize the operation of the DT220 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 DT220 can be performed through the keyboard or a PC using the optional EZ-LINK™ software that greatly facilitates setup and programming.

DIMENSIONS

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A = 11.20 " (284.48 mm)
B = 4.10" (104.14 mm)
C = 8.575" (217.605 mm)

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INDUSTRIAL DATA SYSTEMS
WEIGHING TECHNOLOGY LEADERS

MODEL
IDS DT220
DATA TERMINAL/INDICATOR

APPLICATIONS
- Gross, tare and net weighing
- Vehicle and railroad weighing
- Labeling and Barcode printing
- Multi-container and axle weighing
- Keyboard and ID recall tare weights
- Bulk-weighing and bagging systems
- Single step or weigh-in and weigh-out
- Batching and process control systems
- Interface with controls, PLC & computers
- Integrator for basic balances and indicators

FEATURES
- 8 lines x 40 char LCD display backlit (green or white)
- 63-key sealed membrane with audible and tactile feedback
- Programmable in Scale Basic™ macro language for application development (Real-Time 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 serial protocols
- 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 port for relay control & digital input
- Parallel Centronics printer interface port
- 3 full duplex serial ports: RS232, RS485 and 20mA current loop
- Selectable baud rates and data formats
- Barcode scanner/card reader, RFID & PC serial input interface
- Time and Date Clock Leap Year compliant
- 32MB non-volatile Flash provides over 8000 stored IDs (part, truck, transactions, etc.)
- Selectable address for multi-drop RS485 network interface
- PS/2 keyboard interface port
- Uncased versions for panel mounting

OPTIONS
- 24 Bit Analog Scale Interface card for digital indicator features
- 4-20mA/0-10VDC isolated analog output with 16-bit resolution
- Relay modules for setpoint control or remote operation
- Input/output solid-state or dry contact relay modules (AC/DC)
- External PS/2 Keyboard (wash down available)
- Custom Enclosures for complete all in one systems
- Custom application programming (consult factory)

US NTEP CERTIFICATE # 06-093
CANADIAN CERTIFICATE #AM-5614
MADE IN U.S.A.