

STANDARD FEATURES

SCALE SPECIFICATIONS

Display (2 provided)	Vacuum Florescent 8 digit numeric 0.5" (12.5 mm) 16 Character Alpha 0.2" (5.0 mm)
Keyboard	28 position keyboard, 12 numeric keys, 4 programmable function keys, 8 fixed function keys, 4 control keys
Internal Resolution	20-bit A/D Sigma-Delta; 1,048,000 d
Display Resolution	200,000 dd industrial; 10,000 dd HB44
Display Increments	Selectable 1, 2, 5, 10, 20, 50 100
Decimal Point	Selectable 0, 1, 2, 3, 4, 5, 6 places
Conversation Rate	60 samples/second typical
Signal Sensitivity	0.1 uV/graduation (min)
Signal Range	0.5 mV/V to 6mV/V
Load Cell Excitation	10 ± 0.5VDC (-5 to +5)
Load Cell Power	12 x 350 Ω or 24 x 700 Ω load cells
Auto Zero Tracking	0-60 dd in 1/4 dd increments
Auto Zero Delay	0-25 seconds In 0.1 second increments
Motion Detect	0-60 dd in 1/4 dd increments
Motion Delay	0-25 seconds In 0.1 second increments
Digital Filter	0-18 selectable filter (DSP) levels
Calibration	Normal, reverse, deadload only, multi-point linearization (up to 5) points to linearize input signal, gain adjustment and front panel calibration lock
Watchdog Timer	Fault tolerant operation
RFI Protection	Signal, excitation and sense lines
RAM	32K provides 1,111 ID storage (parts, etc)
Clock Module	Time and Date Clock Y2K and Leap Year compliant

COMMUNICATIONS

Serial Port 1	Bi-directional RS232 or 20mA current loop
Serial Port 2	Bi-directional RS232, or RS485
Digital/Parallel port	8 inputs and 9 outputs; Active low (TTL) Centronics printer port
Print Formats	User configurable print formats
Continuous output	Port 2 for PC's, scoreboards etc.

GENERAL SPECIFICATIONS

Power	110/220VAC ±10% @ 50/60Hz or 12-28 VDC
Power Consumption	10W @ 115VAC; 6W @ 12VDC
Operating Temperature	-10 to +40 °C.
Weight	11.5 lbs (5.22 kg)
Warranty	One-year limited

OPTIONS

Analog Output Module	Fully isolated 0-10VDC or 4-20mA; 16-bit resolution; 650Ω load resistance
Relay Box	4 to 8 channel external relay box
Relay Modules	Input/output solid-state (AC/DC) relays
IS Barriers	Hazard location intrinsic safety barriers
Custom programming	(Consult factory)

APPROVALS

NTEP COC# 1192-096A1

SOFTWARE AND ENHANCEMENTS

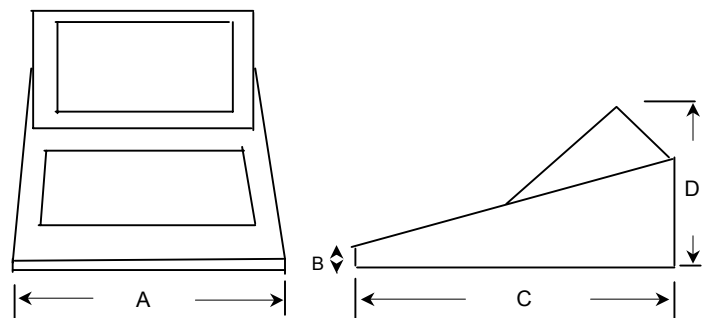
Industrial Data Systems Inc. has made major improvements to the SDI II digital indicator compared to the original SDI. The update rate is six times faster (60 samples/sec). This sample rate makes readings ten times more accurate, and settle times much faster. The new design utilizes Delta Sigma technology, which makes the indicator very stable over a wide temperature range. The internal resolution is over a million counts, which improves accuracy. Automatic deadload adjust removes up to +/- 100% of the deadload from the input signal without affecting the signal span counts. Front panel gain adjustments and Intuitive user interface are just a few of the improvements made to the new SDI II.

The SDI II is offered either in the ergonomically efficient, mild steel, desktop enclosure, or the wall mount stainless steel version. Over 1000 memory locations are offered as standard for tares and/or totals. Optional 1 Meg of memory takes the number to over 4500. Time and Date clock is a standard feature. The designers of this state of the art instrument considered simplicity of operation and calibration a must.

The SDI II has been deigned with your applications in mind. The general purpose weighing program features single or two-step weighing, with keyboard entered or stored tare weights. Units of weight are selectable for lb, kg, ton, TNE, grams, oz, user defined labels or print codes. A user configurable software structure enables user definition of labels, headers, tares, etc. Summary reporting of totals is available as well as detailed transaction reporting. These reports may be printed on a printer or transmitted to a host computer. Password protection is user selectable to prevent unauthorized access or data tampering. The page printer feature enables the user to format tickets from the keyboard. Built in diagnostic software provides service assistance by testing memory, I/O ports, A/D and printing configuration reports. Calibration parameters are entered and locked from the keyboard. Multi-container or axle weighing programs are also available along with traffic control lights for axle weighing.

DIMENSIONS

A = 9.0"	(22.86 cm)
B = 0.75"	(1.905 cm)
C = 10.5"	(26.67 cm)
D = 6.0"	(15.24 cm)



Specifications subject to change without notice © IDS, Inc. 2000 03/03/00 DS-IDSSDI2.doc



INDUSTRIAL DATA SYSTEMS

WEIGHING TECHNOLOGY LEADERS

APPLICATIONS

- Single step weighing or weigh-in and weigh-out
- ID stored tare weights or keyboard entered tares
- 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
- Hazardous environments with optional IS barriers

FEATURES

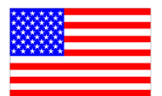
- Summary reporting of totals
- Detailed transaction reporting
- PC interface for transmitting reports to host computer
- Page printer enables user to format tickets from the keyboard
- Password protection to prevent unauthorized tampering
- Built in diagnostic software for memory, I/O ports, A/D, etc.
- Printable configuration reports
- Calibration parameters are entered and locked from keyboard
- Selectable weight units, lb, kg, ton, TNE, grams, oz or user defined
- Primary and secondary units with conversion factor
- 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 bi-directional serial ports: RS232, 20mA current loop and RS485
- Digital/Parallel port for relay control and parallel printer interface
- Selectable baud rates and data formats
- Barcode reader interface
- Time and Date Clock Y2K and Leap Year compliant
- 32K RAM provides 1,111 ID storage for part, truck, etc.

OPTIONS

- 1 Meg RAM memory option for over 4,500 ID locations
- 4-20mA/0-10VDC isolated analog output with 16-bit resolution
- 4 to 8 channel relay boxes for setpoint control or remote operation
- Input/output solid-state relay modules (AC/DC)
- Intrinsic safety barriers for hazardous locations Class I / II / III Div. 1 and 2 Groups A-G
- Stainless steel NEMA 4/4X enclosure
- Custom application programming (consult factory)

MODEL **IDS SDI II**

WEIGHT INDICATOR



MADE IN U.S.A.



Y2K
Compliant