MODES OF OPERATION The IDS 433 is an industrial digital weight indicator that outlasts and

outperforms any indicator in its class. The unique design of this

indicator combines exceptional features with an affordable price. It

features a large bright 6-digit LED display and full numeric keyboard

with large keys to enhance and simplify operator interface. With its super fine sensitivity and 60 updates/second the IDS 433 delivers

consistency and outstanding accuracy. With a Mild cold rolled steel

operation, the IDS 433 is a very versatile indicator for use in various industries and applications that range from basic weighing, material

enclosure, standard and optional features, and built-in modes of

The IDS 433 is fully programmable in an easy and flexible macro

language called Scale Basic™. In addition to the built-in modes of

IDS 433 to meet your application requirements. The Scale Basic

language provides various commands and functions that include:

storage, message display, and program sequence control among

keyboard or a PC using the optional EZ-LINK™ software that greatly

others. Programming the IDS 433 can be performed through the

math operations, I/O control, setpoints, timers, data entry, ID

operation, Scale Basic allows you to customize the operation of the

testing to more complex process control weighing.

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 Delav Motion Detect Motion Delay

Digital Filter Calibration Watchdog Timer

RFI Protection **RAM**

COMMUNICATIONS

Serial Port 2 Digital Port **Print Formats**

Serial Port 1

Simplex RS232 or 20mA current loop Full duplex RS232, 20ma or RS485 3 inputs and 3 outputs; Low active (TTL)

-10 to +40 °C.

6 lbs (2.72 kg)

One-year limited

4 user configurable print formats

GENERAL SPECIFICATIONS Power 110/220VAC ±10% @ 50/60Hz or 12-28

Power Consumption

Operating Temperature

Enclosure

Weight Warranty

OPTIONS Parts counting Parts counting and weighing program

Analog Output Module

Relay Box Relay Modules

Clock Module

High speed (HS)

EZ-LINKTM

IS Barriers Panel Mount Kit

DeviceNet **Profibus**

APPROVALS

compliant

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

Bright red LED; 1-inch x 6-digit numeric Gross, Net, Motion, Zero, LB, kg (LED) 19-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)

10W @ 115VAC; 6W @ 12VDC

Mild cold rolled steel with Texture Finish

Fully isolated 0-10VDC or 4-20mA; 16-bit

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

100 samples/second conversion rate;

PC software; facilitates configuration

and Scale BasicTM programming

Mounts enclosure to user panel

(for future release)

high-speed process control applications

Hazard location intrinsic safety barriers

PLC/COM interface (for future release)

PLC/COM interface (for future release)

Time and Date Clock Y2K and Leap Year

resolution: 650Ω load resistance

4-channel external relay box

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/Axle Auto 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 - Auto Axle Weigh (Long Scales) Same as Mode 4 but previous axles are auto tared

MODE 6 - ID Tare, Print and Total

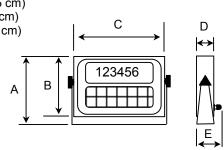
Provides tare entry and recall by ID; Prints ID, sequence # and GTN weights; Keeps running totals by ID; Provides reporting functions

MODE 7 - Peak Hold Mode

Display or print the peak gross or net weight detected

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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APPLICATIONS

- Gross, tare and net weighing
- · Vehicle and railroad weighing
- · Multi-container or axle weighing
- Parts counting and 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
- 19-key audible with tactile feel membrane keyboard (sealed)
- 8 selectable modes of operation: Normal; Fill to Setpoint; Over/Under Checkweigh; Vehicle Weigh-In/Out with Totals; Multi-Container/Axle Auto Weighing with Total; Auto Weigh & Print; Auto Axle Weigh with Traffic Light Control (Short/Long Scales); ID Tare, Print & Total; Peak Hold
- 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 (part, truck, etc.)
- Selectable address for multi-drop RS485 network interface

OPTIONS

- Parts counting and weighing program
- 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)



WEIGHT INDICATOR

MODEL IDS 433











