



IND9D56

Dynamic Weighing Controller

Specifications

Dimensions	Enclosure	Height	Width	Depth	Shipping Weight
		406.4mm (16.0 in)	406.4mm (16.0 in)	152.4 mm (6.0 in)	14 kg (30 lb)
Enclosure	<ul style="list-style-type: none"> CRS ANSI 61Gray, optional 304 stainless steel, certified TYPE 4/12 (ref. IP65) (pending) Mounts to wall or using integrated brackets, or to optional stand for floor mounting 				
Power	Universal power supply, 87 to 264 VAC at 49 to 61 Hz , 750 mA consumption maximum (560 terminal only)				
Display	Vacuum florescent, 21mm weight display, graphical 128 x 64 dot				
Keypad	5 user selectable soft keys; navigation keyset; numeric keys				
Scale Types	Analog Scale: 10 VDC excitation powers up to 8 350Ω load cells, 2 or 3 mV/V				
Performance	Maximum update rates: Analog to digital 366 Hz; target comparison (setpoint) 50 Hz; PLC interface 20 Hz				
Connectivity	Standard: COM1: RS-232 / RS-422 / RS-485 Optional: COM2: RS-232; COM3: RS-232 / RS-422 / RS-485, 10Base-T Ethernet TCP/IP port				
Serial Interface Protocols	<ul style="list-style-type: none"> Inputs: ASCII commands for Clear, Print, Zero; barcode; SICS level 0 Outputs: METTLER TOLEDO Continuous or Demand; continuous template using 1 of 5 configurable templates; report printing; interfaces external ARM100 Input/Output module, SICS level 0 				
Options	<ul style="list-style-type: none"> PLC (one option): Allen-Bradley® Remote I/O; DeviceNet™, Ethernet / IP, PROFIBUS® L2 DP; Analog Output: 4-20 mA/0-10 VDC 				
Operating Environment	-10°C to +40° C (14°F to 104°F), 10% to 95% relative humidity, non-condensing				
Agency Approvals (IND560 terminal for dynamic weighing)	Weights and Measures	USA: Class III/IIIS 3000d; CoC 05-065 (pending)			
	Safety	cULus (pending)			

Features

Benefits

Interface to peripheral data sources	<ul style="list-style-type: none"> Enables transaction to integrate both bar code and dimensional data together with the package weight Flexible configuration for automatic parsing of the input data string allows for user customization
Multiple connectivity options	<ul style="list-style-type: none"> Provides the user with the ability to communicate transaction data to a wide variety of Ethernet-enabled devices, and communicate with automation equipment via DeviceNet™, A-B RIO®, Ethernet / IP, or PROFIBUS™ protocol
High speed A/D plus TraxDSP filtering	<ul style="list-style-type: none"> Achieves accurate weighments with the shortest possible weigh time, even under adverse conditions with high vibration
25 Target ID Memory with Tolerance Check	<ul style="list-style-type: none"> Allows user to program and monitor three-zone tolerance ranges specific to each target ID Provides ability to trigger a discrete output for out of tolerance weighments using configurable reject timers
Optional Status Lights and Push Buttons	<ul style="list-style-type: none"> Configurable, rugged push button and LED light options provide operators with additional visual cues to system status, to minimize confusion and increase productivity
Bright VFD Multi-Line Display	<ul style="list-style-type: none"> Easy readability of scale status, error messages, last package averaged weight, setup menu
Error Configuration and Logging	<ul style="list-style-type: none"> Provides user with flexibility in handling scale errors and alarms Logs errors for operational analysis and troubleshooting
Security	<ul style="list-style-type: none"> Supports the use of username with password for setup security at operator and supervisor levels
Weights and Measures Approval	<ul style="list-style-type: none"> Allows for use in legal-for-trade applications

IND9D56 Part # Configuration

Terminal Type	Scale Type	Application Software	Ethernet / Serial	PLC Interface	Voltage for Outputs	ARM100	Voltage for Photo-Eyes	Enclosure	Operator buttons and lights
C56DY	1	1-3	0,A	0,A,B,P,D	0,1,2	0,1	0, 1, 2	M,S	00-99
C56DY	1	1	A	0	0	0	0	M	00

Order Number	Description
Scale Type	
1	Analog load cell
Application Software	
1	Basic random box weighing
2	Random box weighing and checkweighing
3	Other
Ethernet / Serial Option	
0	None
A	Ethernet TCP/IP Port and Two Serial Ports
PLC Interface Option	
0	No output option
A	Analog Output (4-20 mA or 0-10 V)
B	Allen-Bradley RIO Interface
P	PROFIBUS L2 DP Interface
D	Device Net Interface
Voltage for Outputs	
0	110VAC
1	220VAC
2	24VDC
ARM100	
0	None
1	1 x ARM100 I/O module installed
Voltage for Photo-eyes	
0	110VAC
1	220VAC
2	24VDC
Enclosure Material	
M	Painted Mild Steel
S	204 Stainless Steel

Order Number	Description	
IND9D56 Custom Buttons and Lights Installation		
	Buttons	Status Lights
00	None	None
01	None	Alarm Light
02	None	Alarm Horn
03	None	Running
04	None	Out of Tolerance
05	None	Scale Empty
06	None	3 zone light bar, top mount
07	None	Alarm Light, Running
08	None	Alarm Light, Out of Tolerance
09	None	Alarm Light, Running, Out of Tolerance
10	Run Permissive	None
11	Run Permissive	Alarm Light
12	Run Permissive	Alarm Horn
13	Run Permissive	Running
14	Run Permissive	Out of Tolerance
15	Run Permissive	Scale Empty
16	Run Permissive	3 zone light bar, top mount
17	Run Permissive	Alarm Light, Running
18	Run Permissive	Alarm Light, Out of Tolerance
19	Run Permissive	Alarm Light, Running, Out of Tolerance
20	Silence Alarm	Alarm Horn
21	Run Perm, Sil Alarm	Alarm Horn

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