



## IND560 Custom Single Material Filling Controller

### Specifications

Dimensions	Height		Width		Depth		Shipping Weight		
	Enclosure	406.4mm (16.0 in)	406.4mm (16.0 in)	152.4mm (6.0 in)	14 kg (30 lb)				
<b>Enclosure</b>	<ul style="list-style-type: none"> <li>CRS ANSI 61 Gray, optional 304 stainless steel, certified TYPE 4/12 (ref. IP65) (pending)</li> <li>Mounts to wall using integrated brackets</li> </ul>								
<b>Power</b>	Universal power supply, 87 to 264 VAC at 49 to 61 Hz, 750 mA consumption maximum (560 terminal only)								
<b>Display</b>	Vacuum fluorescent, 21mm weight display, graphical 128 x 64 dots								
<b>Keypad</b>	5 user-selectable softkeys; Clear, Tare, Print, Zero, navigation keyset; numeric keys								
<b>Scale Types</b>	<ul style="list-style-type: none"> <li>Analog Scale: 10 VDC excitation powers up to 8 350Ω load cells, 2 or 3 mV/V</li> <li>IDNet Scale: interface current high-precision K bases and platforms; optional power supply for older models</li> </ul>								
<b>Performance</b>	Maximum update rates: Analog to digital 366 Hz; target comparison (setpoint) 50 Hz; PLC interface 20 Hz								
<b>Connectivity</b>	Standard: COM1 – RS-232/422/485 Optional: COM2 – RS-232 / RS-422 / RS-485, 10Base-T Ethernet TC/IP port								
<b>Serial Interface Protocols</b>	<ul style="list-style-type: none"> <li>Inputs: ASCII commands for Clear, Tare, Print, Zero; barcode; SICS level 0</li> <li>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</li> </ul>								
<b>Options</b>	<ul style="list-style-type: none"> <li>PLC (one option): Allen-Bradley® Remote I/O, DeviceNet™, Profibus® L2 DP; Analog Output: 4-20 mA and 0-10 VDC</li> </ul>								
<b>Operating Environment</b>	-10°C to +40°C (14°F to 104°F), 10% to 95% relative humidity, non-condensing								
<b>Agency Approvals (IND560 Terminal)</b>	<b>Weights and Measures</b>	USA: Class II 100,000d; Class III/IIIL 10,000d; CoC 05-057							
		Canada: Class II 100,000d; Class III/III HD 10,000d							
		Europe: Class II base dependent; III 7,500e, III 10,000e; includes alibi memory							
	<b>Safety</b>	cULus							
<b>Hazardous Area (pending)</b>	Division 2 and 22: Class I and II, Groups A-D, F and G (pending)								
	Zone 2 and 22: Class I and II, Groups IIC (pending)								

Features	Benefits
<b>Material Transfer Mode</b>	<ul style="list-style-type: none"> <li>Target comparison outputs for single or two-speed feeder control for both weigh-in and weigh-out applications</li> <li>Graphic display provides analog bar graph showing target status with and without weight value</li> </ul>
<b>Over / Under Mode</b>	<ul style="list-style-type: none"> <li>Graphic display indicates Under, OK and Over status with and without weight value</li> <li>Multiple methods of target and tolerance entry including barcode scanner, front keypad</li> </ul>
<b>Enclosure</b>	<ul style="list-style-type: none"> <li>Standard IP65 painted mild steel enclosure</li> <li>Optional 304 stainless steel enclosure provides required protection for harsh environments</li> <li>Heavy duty dual latches provide tamper resistant, reliable door seal</li> </ul>
<b>Status Lights and Push Buttons</b>	<ul style="list-style-type: none"> <li>Configurable, rugged push button options including Start, Tare, Jog, Print to meet unique application requirements</li> <li>Bright, LED lights provide visual queues to operators to minimize confusion and increase productivity</li> </ul>
<b>Ease of Navigation</b>	Configure setup with menu driven, "Windows-like" navigation
<b>Security</b>	Supports the use of username with a password for setup security of four levels
<b>Memory Tables</b>	<ul style="list-style-type: none"> <li>Target table stores up to 25 targets, each with tolerances and spill (preact) values</li> <li>Tare table stores up to 25 fixed tare values, each with accumulation</li> </ul>
<b>Programmable Softkeys</b>	15 programmable softkeys provide one-keypress access to target and tare tables, as well as functions such as start and pause to eliminate operator confusion and errors
<b>PLC Connectivity</b>	Optional PLC interfaces for A-B RIO, DeviceNet™, Profibus™ L2 DP or Analog Output installed inside the enclosure
<b>Multiple Serial Protocols</b>	Easy connection to remote display, PLC, DCS, and METTLER TOLEDO accessory modules
<b>TraxDSP™ Filtering</b>	Tunable digital filtering suppresses environmental effects on weighing accuracy
<b>Global Approvals for Terminal</b>	Provides acceptance in local markets

## IND560 Custom Single Material Model Configuration

Term. Type	Scale Type	# of operators	Wiring and Tags	Serial	PLC Interface	Software	Voltage for I/O	ARM100	Hazardous Area	Enclosure	Custom
C56	1, 4	0-9	1	0, A	0, A, B, P, D	0	0, 1, 2	0, 2	0, 2	M, S	00-99
<b>C56</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>A</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>M</b>	<b>00</b>

Order Number	Description	
<b>IND560 Custom</b>		
	<b>Buttons</b> (E-stop and Start included in all configurations)	<b>Status Lights</b>
00	None	None
01	Jog	None
02	Print	None
03	Tare	None
04	Jog, Print	None
05	Tare, Print	None
06	Jog, Tare	None
07	Jog, Print, Tare	None
08	None	Tolerance OK
09	Jog	Tolerance OK
10	Print	Tolerance OK
11	Tare	Tolerance OK
12	Jog, Print	Tolerance OK
13	Tare, Print	Tolerance OK
14	Jog, Tare	Tolerance OK
15	Jog, Print, Tare	Tolerance OK
16	None	Feed, Fast Feed, Tolerance OK
17	Jog	Feed, Fast Feed, Tolerance OK
18	Print	Feed, Fast Feed, Tolerance OK
19	Tare	Feed, Fast Feed, Tolerance OK
20	Jog, Print	Feed, Fast Feed, Tolerance OK
21	Tare, Print	Feed, Fast Feed, Tolerance OK
22	Jog, Tare	Feed, Fast Feed, Tolerance OK
23	Jog, Print, Tare	Feed, Fast Feed, Tolerance OK

IND560 Custom Scale Type	
1	Analog
4	IDNet

IND560 Custom Options (for field installation)	
71209095	Ethernet and 2 Serial Port Kit
71209096	PROFIBUS <sup>®</sup> L2 DP Interface Kit, Panel Mount
71209098	ALLEN-BRADLEY <sup>™</sup> RIO Interface Kit
71209099	Analog Output Kit (4-20ma or 0 – 10V)
72193580	DeviceNet <sup>™</sup> Interface Kit
64055811	Fill-560 Application Software
71209352	ARM100 Remote I/O Relay Module
72185046	IDNet Power Supply Adaptor Kit (for PIK-Brick weigh cells)

IND560 Custom # of Operators	
0-9	Defines how many total operators are installed

IND560 Custom Wiring and Tags	
1	Factory wiring of operators and nameplate tags

IND560 Custom Ethernet / Serial Option	
0	None
A	Ethernet TCP/IP Port and Two Serial Ports

IND560 Custom PLC Interface Option	
0	No output option
A	Analog Output (4-20 mA or 0-10 V)
B	Allen-Bradley RIO
P	PROFIBUS L2 DP Interface
D	DeviceNet Interface

IND560 Custom Application Software Option	
F	Fill560 Software

IND560 Custom I/O Voltage	
0	110VAC
1	220VAC
2	24VDC

IND560 Custom ARM100	
0	No remote ARM100 installed

IND560 Custom Hazardous Area	
0	Safe Area
2	Class 1 Division 2 / Zone 22 (future)

IND560 Custom Enclosure Material	
M	Painted Mild Steel
S	304 Stainless Steel

Contact your local METTLER TOLEDO<sup>®</sup> sales office or authorized distributor for additional information

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