



## IND560 Custom Multiple Material Filling Controller

### Specifications

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Dimensions		<b>Height</b>	<b>Width</b>	<b>Depth</b>	<b>Shipping Weight</b>
	<b>Enclosure</b>	406.4mm (16.0 in)	406.4mm (16.0 in)	152.4 mm (6.0 in)	18 kg (40 lb)
<b>Enclosure</b>	<ul style="list-style-type: none"> <li>CRS ANSI 61Gray, optional 304 stainless steel, certified TYPE 4/12 (ref. IP65) <b>(pending)</b></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 florescent, 21mm weight display, graphical 128 x 64 dot				
<b>Keypad</b>	5 user selectable soft keys; 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 / RS-422 / RS-485; Optional: COM2: RS-232; COM3: RS-232 / RS-422 / RS-485, 10Base-T Ethernet TCP/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/IIII 10,000d; CoC 05-057			
		Canada: Class II 100,000d; Class III/III HD 10,000d <b>(pending)</b>			
		Europe: Class II, III, IIII 100,000d; includes alibi memory			
	<b>Safety</b>	cULus (pending)			
<b>Hazardous Area (pending)</b>	Division 2: Class I and II, Groups A-D, F and G (pending) Zone 2 and 22 : Class I and II, Group IIC (pending)				

Features	Benefits
<b>Fill/Blend, Dose, and Dump sequences</b>	<ul style="list-style-type: none"> <li>Increase the filling and dispensing capability of the standard IND560 to address many specific applications including both a weigh-in cycle and a weigh-out cycle.</li> </ul>
<b>Complementary filling features</b>	<ul style="list-style-type: none"> <li>Use the complementary filling features of the Fill-560 Module (timers, jog, weigh-in and weigh-out interlocks, tolerance checking) to provide customized control of the materials delivered and other peripheral equipment.</li> </ul>
<b>Semi- and Automatic Modes</b>	<ul style="list-style-type: none"> <li>Minimize operator activity or maximize the flexibility of manual interface using the appropriate transition.</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 Weigh-In Start, Weigh-out Start, Pause/Resume, Jog, Silence Alarm to meet unique application requirements.</li> <li>Bright, LED lights provide visual queues to operators to minimize confusion and increase productivity</li> </ul>
<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
<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

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IND560 Custom Multi Material Model Configuration											
Term. Type	Scale Type	# of operators	Wiring and Tags	Ethernet/ Serial	PLC Interface	Software	Voltage for I/O	ARM100	Hazardous Area	Enclosure	Custom
C56	1, 4	0-9, A-K	0,1	0, A	0,A,B,P,D	F	0, 1, 2	0,1,2	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>F</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 (E-stop and Start included in all configurations)</b>	<b>Status Lights</b>
<b>00</b>	Weigh In Start	None
<b>01</b>	Weigh In Start, Jog	None
<b>24</b>	Weigh In Start	Feed, Fast Feed
<b>25</b>	Weigh In Start, Jog, Weigh Out Start	Feed, Fast Feed
<b>26</b>	Weigh In Start, Jog, Weigh Out Start, Print	None
<b>IND560 Custom Scale Type</b>		
<b>1</b>	Analog	
<b>4</b>	IDNet	

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

Order Number	Description
<b>IND560 Custom # of Operators</b>	
<b>00-20</b>	Defines how many total operators are installed
<b>IND560 Custom Wiring and Tags</b>	
<b>0</b>	Pushbutton/light mounting only, no wiring or tags
<b>1</b>	Factory wiring of operators and nameplate tags
<b>IND560 Custom Ethernet/ Serial Option</b>	
<b>0</b>	None
<b>A</b>	Ethernet TCP/IP Port and Two Serial Ports
<b>IND560 Custom PLC Interface Option</b>	
<b>0</b>	No output option
<b>A</b>	Analog Output (4-20 mA or 0-10 V)
<b>B</b>	Allen-Bradley RIO Interface
<b>P</b>	PROFIBUS L2 DP Interface
<b>D</b>	Device Net Interface
<b>IND560 Custom Application Software Option</b>	
<b>F</b>	Fill560 Software
<b>IND560 Custom I/O Voltage</b>	
<b>0</b>	110VAC
<b>1</b>	220VAC
<b>2</b>	24VDC
<b>IND560 Custom ARM100</b>	
<b>0</b>	No ARM100 installed
<b>1</b>	1 x ARM100 installed (includes 24VDC PS)
<b>2</b>	2 x ARM100 installed (includes 24VDC PS)
<b>IND560 Custom Hazardous Area</b>	
<b>0</b>	Safe Area
<b>2</b>	Class 1 Division 2 / Zone 22 <b>(future)</b>
<b>IND560 Custom Enclosure Material</b>	
<b>M</b>	Painted Mild Steel
<b>S</b>	304 Stainless Steel

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