



## C560DF

### Manual Drum Filling Controller for 2 Speed Surface Filling

Specifications		
Dimensions	Enclosure	Shipping Weight
	Height	406.4mm (16.0 in)
	Width	406.4mm (16.0 in)
	Depth	152.4 mm (6.0 in)
	Enclosure	25 kg (55lb)
Enclosure	<ul style="list-style-type: none"> <li>Painted mild steel, optional 304 stainless steel</li> <li>Mounts to wall or machine using integrated brackets</li> </ul>	
Power	115 VAC / 49 to 61 Hz, 240VAC by special order	
Display	Vacuum florescent, 21mm weight display, graphical 128 x 64 dot	
Keypad	15 user selectable soft keys; Clear, Tare, Print, Zero, navigation keyset; numeric keys	
Scale Types	<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 to high precision scale bases</li> </ul>	
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	
I/O	<ul style="list-style-type: none"> <li>Optional Start, Pause/Abort, Resume, OK to Weigh-In Pushbuttons</li> <li>Optional Ready, Feed, Fast Feed, Out of Tolerance Indicator Lights</li> <li>Standard Emergency stop pushbutton</li> </ul>	
Lance and Feed Valve Control	<ul style="list-style-type: none"> <li>Raise and lower lance pushbuttons, adjustable down limit pressure switch</li> <li>Solenoid actuated high pressure (80PSIG) control valves for feed and fast feed</li> <li>Fine feed adjustment switch and gauge indicator for flow rate adjustment during fine feed</li> <li>Connection for primary pneumatic air input (100psi maximum) and exhaust</li> </ul>	
Options	PLC (one option): Allen-Bradley® Remote I/O; Profibus® L2 DP; Analog Output: (4-20 mA and 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)	Weights and Measures	USA: Class II 100,000d; Class III/IIIL 10,000d; CoC 05-057
		Canada: Class II 100,000d; Class III/III HD 10,000d (pending)
		Europe: Class II, III, IIII 100,000d; includes alibi memory
	Safety	cULus (pending)

Features	Benefits
Manual filling of single drums	<ul style="list-style-type: none"> <li>Provides operator with full control of lance assembly for drum filling applications</li> </ul>
Two Speed Control With Timer and Manual Control of Fine Feed	<ul style="list-style-type: none"> <li>Fast and accurate feeding with user tunable feed settings allow optimization for material and pressure</li> </ul>
Lance Assembly Control With Raise and Lower Pushbuttons	<ul style="list-style-type: none"> <li>Simple interface to lance system</li> <li>Simple operator functionality</li> <li>Pressure gauge provides immediate feedback to operator and technician for system tuning</li> </ul>
Rugged 304 Stainless Steel Enclosure	<ul style="list-style-type: none"> <li>Provides required protection for harsh environments</li> <li>Heavy duty dual latches provide tamper resistant, reliable door seal</li> <li>Designed to meet NEMA 4 requirements</li> </ul>
Rugged Pushbuttons and Hi-Visibility Status Lights (Optional)	<ul style="list-style-type: none"> <li>Reliable and easy to operate control of filling cycle</li> <li>Visual queues to operators of filling status, even under poor light conditions, maximizing productivity</li> </ul>
Target ID Storage and Recall	<ul style="list-style-type: none"> <li>Simple, fast recall of up to 25 target filling ID's, allowing for operational flexibility and speed</li> <li>Configurable tolerance monitoring alerts operator to out-of-tolerance filling</li> </ul>
Container Tare Checking	<ul style="list-style-type: none"> <li>Ensures that proper container is on scale before filling begins</li> </ul>
User Security Restrictions	<ul style="list-style-type: none"> <li>Prevents unauthorized user from changing target filling values</li> </ul>
Auto-Jog	<ul style="list-style-type: none"> <li>Automatically pulses feed until weight is within tolerance, minimizing need for operator interaction</li> </ul>
Auto-Tare	<ul style="list-style-type: none"> <li>Automatically tares empty container weight, minimizing need for operator interaction</li> </ul>
Totalization and Reporting	<ul style="list-style-type: none"> <li>Provides filling totals by container id for printing or export to a PC for further data analysis</li> </ul>
TraxDSP™ Filtering	<ul style="list-style-type: none"> <li>Tunable digital filtering suppresses environmental effects on weighing accuracy (analog scale only)</li> </ul>

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IND560 Manual Drum Filling Controller Configuration											
Term. Type	Scale Type	System Type	Drum Filling Type	Ethernet/ Serial	PLC Interface	Software	Voltage for I/O	ARM100	Hazardous Area	Enclosure	Custom
C56	1, 4	D	M, S	0, A	0,A,B,P,D	M	0, 1, 2	0	0, 2	M, S	00-99
<b>C56</b>	<b>1</b>	<b>D</b>	<b>M</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 Drum Filling Buttons and Lights Installation</b>		
	<b>Buttons (E-stop and Raise / Lower Lance, E-Stop included in all configurations)</b>	<b>Status Lights</b>
00	None	None
01	None	Ready
02	None	Ready, Out of Tolerance
03	None	Ready, Out of Tolerance, Feed, Fast Feed
04	Jog	None
05	Jog	Ready
06	Jog	Ready, Out of Tolerance
07	Jog	Ready, Out of Tolerance, Feed, Fast Feed
08	Start Weigh In, Pause/Abort, Resume	None
09	Start Weigh In, Pause/Abort, Resume	Ready
10	Start Weigh In, Pause/Abort, Resume	Ready, Out of Tolerance
11	Start Weigh In, Pause/Abort, Resume	Ready, Out of Tolerance, Feed, Fast Feed
12	Future	Future
13	Future	Future
14	Future	Future
15	Future	Future
16	Future	Future
17	Future	Future
18	Future	Future
19	Future	Future
20	Future	Future
<b>IND560 Drum Filling Scale Type</b>		
1	Analog	
4	IDNet	

Order Number	Description
<b>IND560 System Type</b>	
DF	Drum Filling
<b>IND560 Drum Filling Type</b>	
M	Manual filling controller, pneumatic lance controls
S	Semi-automatic (Future)
<b>IND560 Drum Filling Ethernet/ Serial Option</b>	
0	None
A	Ethernet TCP/IP Port and Two Serial Ports
<b>IND560 Drum Filling PLC Interface Option</b>	
0	No output option
A	Analog Output (4-20 mA or 0-10 V) (Future)
B	Allen-Bradley RIO Interface (Future)
P	PROFIBUS L2 DP Interface (Future)
D	Device Net Interface (Future)
<b>IND560 Drum Filling Application Software Option</b>	
M	560Fill configured for manual drum filling
<b>IND560 Drum Filling I/O Voltage</b>	
0	110VAC
1	220VAC
2	24VDC
<b>IND560 Drum Filling ARM100</b>	
0	No ARM100 installed
<b>IND560 Drum Filling Hazardous Area</b>	
0	Safe Area
2	Class 1 Division 2 / Zone 22 <b>(future)</b>
<b>IND560 Drum Filling Enclosure Material</b>	
M	Painted Mild Steel
S	304 Stainless Steel

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