

Product Overview

Enfield Technologies' LS-C40 and LS-C41 pneumatic systems controllers offer flexible PID with feed-forward control topology for the serious control systems engineer. The LS-C40 model (without a valve driver onboard) for compatibility with Enfield Technologies' line of driver-on-board valves, while the LS-C41 contains the driver for those valves that require it. The LS-C40 and LS-C41's adjustable gain, deadband, and dither (both frequency *and* amplitude) settings put the user in full control of their applications.

Features

- Analog PID (Hybrid) w/ Feedforward
- Adjustable Gain Settings
- Optional Onboard Valve Driver
 - Highly Efficient PWM
- Driver/Valve Disable
- Adjustable Deadband
- Adjustable Dither Frequency & Amplitude
- Available ± 10 Vdc Feedback Reference
- Din-Mount Chassis

Typical Applications

- High-Performance Pneumatic Systems:
 - Position Control
 - Motion Control
 - Flow Control
 - Force Control
 - Pressure Control

Industries

- Laboratory Test & Measurement
- Industrial Automation
- Animatronics
- Medical Equipment/Devices
- Analytical Devices



LS-C41 Pneumatic System Controller

Available Models:

LS-C40 = Pneumatic Device Controller *without* optional onboard valve driver

LS-C41 = Pneumatic Device Controller *with* optional onboard valve driver

Specification	Value	
Physical Characteristics	SI Units	Imperial Units
Mass (Weight)	0,202 kg	(7.1 oz)
Approximate Physical Dimensions (L x W x H)	137 mm x 126 mm x 45 mm	5.38" x 4.95" x 1.76"
Mounting	DIN 3 (35 mm/1.38") Rail Mount Clip	
Electrical Characteristics		
Power	30W Max	
Current	1.0A Max	
Supply Voltage	18 to 36Vdc, 24 Vdc Nom.	
Input Impedance	80 k Ω , all inputs	
Electrical Connections	Terminal Blocks	
Input Signal Ranges	-10 Vdc to 10 Vdc (Command and Feedback Scales Must Be Coordinated)	
Output Signals	0 to 5 Vdc Command Effort	
Optional Valve Driver (LS-C41 models)	PWM @ Supply Voltage	
Voltage Output	39kHz	
PWM Frequency	40 Hz to 4 kHz	
Dither Frequency	± 1.25 A Max	
Output Current		
Environmental Characteristics		
Environmental Protection Class	N/A	
Temperature	0°C - 70°C	32°F - 158°F
Humidity	5% - 65% RH	

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