

spirax /sarco®

EL2500 Single Loop Controller

Description

The EL2500 controller is a 1/4 DIN panel mounted single-loop controller suitable for constant set point applications and for use with the Spirax Sarco range of pneumatic and electric series actuators, valves and sensors.
Standard Model Number DC2500-CO-OA00-200-0000-00-0

Technical Data

Mounting Arrangement	Panel mounted 1/4 DIN
Power Supply	90 to 264 VAC, 50/60 Hz, 24 VAC/DC optional
Power Consumption	20 VA Max
Front Protection	NEMA 4x, IP66
Accuracy	± 0.25% of span
Analog Inputs	1 universal input: T/Cs, 100PT RTD, mV 0-5V, 1-5V, 0-20 mA, 4-20 mA
Input sampling rate	6 times per second
Output	4 - 20 mA current output



Options

A variety of options are available to special order. These include an additional input, alarms and communications. Contact Spirax Sarco for further details.

Features

Easy to Configure - A bright dedicated configuration display provides straightforward multilanguage prompts that allow easy set-up with minimum time and effort.

Autotune - This standard feature provides plug and play tuning algorithm, which will, at the touch of a button or through digital input, accurately identify and tune any process including those with deadtime and integration processes.

Fuzzy Logic - This feature uses fuzzy logic to suppress process variable overshoot which can result from setpoint changes or externally induced process disturbance. It operates independently from Autotune. It can be enabled or disabled.

Universal Inputs - Accepts RTD's, mA, mV or voltage input through simple configurations (other inputs also available).

Thermocouple Failsafe - Configurable for upscale or downscale burnout or failsafe output level.

Dual Setpoints - Simple push-button selection allows quick switchover from primary to alternate setpoint.

Installation and Commissioning

Installation and commissioning should be carried out in accordance with the instructions supplied with each controller.

Mounting Arrangements

Controllers are panel mounted as standard using the brackets provided with the units.

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Indicates Alarm 1 and/or Alarm 2 conditions exist.

Indicates Control Relay 1 and/or 2 on.

Upper display with 4 larger digits shows process Variable value (normal operation) or parameter value (configuration). Selectable decimal position.

Indicates either degrees Fahrenheit or Centigrade.

Indicates either Manual or Auto mode.

Indicates either Remote or Local Setpoint2.

Upper display with 6 smaller characters shows operating parameters and values (normal operation) or functions and parameters (configuration). Selectable decimal position.

Dimensions

The controller is housed in a 4.5-inch (114 mm) deep, black plastic case with a dark gray elastomer bezel, that can be panel mounted in a 1/4 DIN cutout. The plug-in chassis allows easy access to the controller board and its various option boards. All power, input, and output wiring are connected to screw terminals on the rear panel.

