

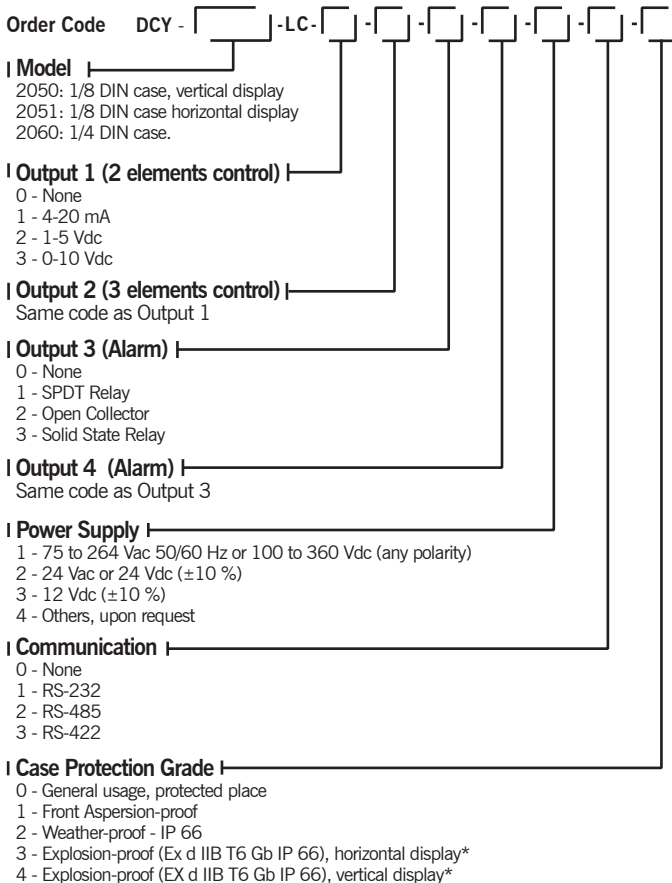


3 Elements Digital Controller for Boiler Level

DCY-2050-LC / DCY-2051-LC DCY-2060-LC

- 3 Elements control: boiler level, water flow and steam flow.
- Three standard inputs for 4-20 mA and 1-5 Vdc, configurable.

- Two analog outputs for 4-20 mA, 1-5 Vdc and 0-10 Vdc, one for control 3 elements control and one for 2 elements control.



* Explosion-proof box:

Dimensions
310 x 310 x 200 mm (HxWxD)
Weight
11 kg nominal

Specifications

Inputs

Configurable for 4-20 mA and 1-5 Vdc. 250 Ω input impedance for mA and >10 M Ω for 5 Vdc.

Functions

P-PID-PID Control. Flow totalization. Auto/Manual Station.

Control Outputs

Analog 4-20 mA (750 Ω maximum load), 1-5 Vdc or 0-10 Vdc, configurable.

Alarm Outputs

Up to 2 SPDT rated for 3A/220 Vac.
Open collector transistor (24 Vdc/40 mA maximum with isolation). Solid state relay (2A/250 Vac with isolation).

Serial Communication

RS-232 or RS-422/485 with 50 Vdc isolation. MODBUS@-RTU Communication Protocol.

Indication

DCY-2050-LC: Two 4-digit displays (9 mm).
DCY-2051-LC: Two 4-digit displays (14 mm/9 mm).
DCY-2060-LC: Two 4-digit displays (14 mm).
Can be configured together with the decimal point.

Configuration

By front-panel push-buttons and internal jumpers.

Sampling Rate

120 ms standard. Half second display update rate.

Accuracy

$\pm 0.1\%$ of full scale for mA and Vdc inputs.
 $\pm 0.5\%$ of full scale for analog output.

Square Root Extraction

$\pm 0.5\%$ of reading, for inputs above 10% of span. Programmable Cut-off from 0 to 5%.

2-wire Transmitter Power Supply

24 Vdc/50 mA maximum, isolated from output, with short circuit protection.

Span Temperature Coefficient

$\pm 0.005\%$ of span / $^{\circ}\text{C}$ for auxiliar input. Reference temperature: 25 $^{\circ}\text{C}$.

Power Supply

75 to 264 Vac 50/60 Hz or 100 to 360 Vdc (10 W nominal);
24 Vac/dc ($\pm 10\%$); 12 Vdc ($\pm 10\%$).

Operating Range

0 to 60 $^{\circ}\text{C}$ temperature and 90% maximum relative humidity.

Dimensions

DCY-2050-LC: 1/8 DIN (96 x 48 x 187 mm) HxWxD, (92 x 45 mm) HxW panel cutout.
DCY-2051-LC: 1/8 DIN (48 x 96 x 187 mm) HxWxD, (45 x 92 mm) HxW panel cutout.
DCY-2060-LC: 1/4 DIN (96 x 96 x 187 mm) HxWxD, (92 x 92 mm) HxW panel cutout.

Weight

0.5 kg nominal (DCY-2050-LC/2051-LC) / 0.6 kg nominal (DCY-2060-LC).

Warranty

One year.