

## Multi-Loop Controllers

F.O.B.: Winona, Minnesota

### Accessories

#### **DAC and SDAC Modules**

The optional DAC and SDAC modules are used to convert open collector outputs to analog voltage or current signals. SDAC modules may only be used with Watlow Anafaze CLS200, CPC400, D8, MLS300 and PPC-2000 controllers.

#### **DAC**

The DAC (digital to analog converter) converts a controller's variable time base (also known as distributed zero crossing or DZC) output to an analog process control signal. Each DAC supports two independent analog outputs. Output signals are available in 4-20mA V<sub>dc</sub>, 0-5 V<sub>dc</sub> and 0-10V <sub>dc</sub>.

#### **DAC Specifications**

##### **Storage Temperature**

- -20 to 60°C (-4 to 140°F)

##### **Operating Temperature**

- 0 to 50°C (32 to 122°F)

##### **Humidity**

- 10 to 95 percent non-condensing

##### **Dimensions**

- Length 112 mm (4.4 in.), Width 91 mm (3.6 in.), Height 44 mm (1.75 in.)

##### **Power Requirements**

- 12 to 24 V<sub>dc</sub>, 100 mA @ 15 V<sub>dc</sub>

##### **Accuracy**

- ±6 percent of full scale

#### **SDAC**

The SDAC (serial digital to analog converter) allows CLS200, CPC400, D8, MLS300 and PPC-2000 controllers to output precise analog voltage or current signals. The unit is typically used for PV retransmit, open-loop control, motor or belt speed control or phase-angle fired SCR power controller. The SERIAL DAC is jumper-selectable for a 0 to 10 V<sub>dc</sub> or 4 to 20 mA outputs. Multiple SERIAL DAC modules can be used with the same controller.

#### **SDAC Specifications**

##### **Storage Temperature**

- -20 to 60°C (-4 to 140°F)

##### **Operating Temperature**

- 0 to 50°C (32 to 122°F)

##### **Humidity**

- 10 to 95 percent non-condensing

##### **Dimensions**

- Length 137 mm (5.4 in.), Width 91 mm (3.6 in.), Height 44 mm (1.75 in.)

##### **Power Requirements**

- 4.75 to 5.25 V<sub>dc</sub>, 100 mA

##### **Resolution**

- 15 bits

##### **Accuracy**

- 0.05 percent (voltage full scale); 0.5 percent (current full scale)

##### **Agency Approvals**

- UL® and C-UL® (UL® 916); CE (EMC directive 89/336/EEC)

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## Accessories

### Ordering Information

To order, complete the code number to the right with the information below:

D A C -

DAC Type

- 1 = Dual digital to analog converter module (converts two DZC control outputs to two 0-5V<sub>dc</sub> analog outputs). Separate power supply required
- 2 = Dual digital to analog converter module, (converts two DZC control outputs to two 0 - 10V<sub>dc</sub> analog outputs). Power supply is separate
- 3 = Dual digital to analog converter module, (converts two DZC control outputs to two 4 - 20mA<sub>dc</sub> analog outputs). Power supply is separate
- 4 = Serial digital to analog converter module (SDAC); provides one high precision isolated voltage or current analog output (range is set from the controller). Separate power supply required if more than 1 SDAC used

Additional Products

A = None

B = 120V<sub>ac</sub> 60Hz wall mount power supply adapter  
(15V<sub>dc</sub> @ 800mA, powers up to 8 dual DAC modules)

C = 120/240V<sub>ac</sub> 50/60Hz panel mount power supply adapter  
(5V<sub>dc</sub> @ 4A, 15V<sub>dc</sub> @ 1.2A, powers up to 13 SDAC modules or 12 dual DAC modules)