# SERIES 16G, 8G, & 4G | TEMPERATURE/PROCESS LOOP CONTROLLERS


16G


8G


4G

## BENEFITS/FEATURES

- **On/off, PID, fuzzy logic, or manual output control**
- **Constant, sloped, program (ramp/soak), or remote set point control**
- **2 primary control outputs, 2 secondary/alarm relay outputs, and RS-485 standard on all models**
- **Remote set point, input retransmission, or event input functions available with optional hardware**

## APPLICATIONS

- Oven control
- Packaging equipment
- Parts washers

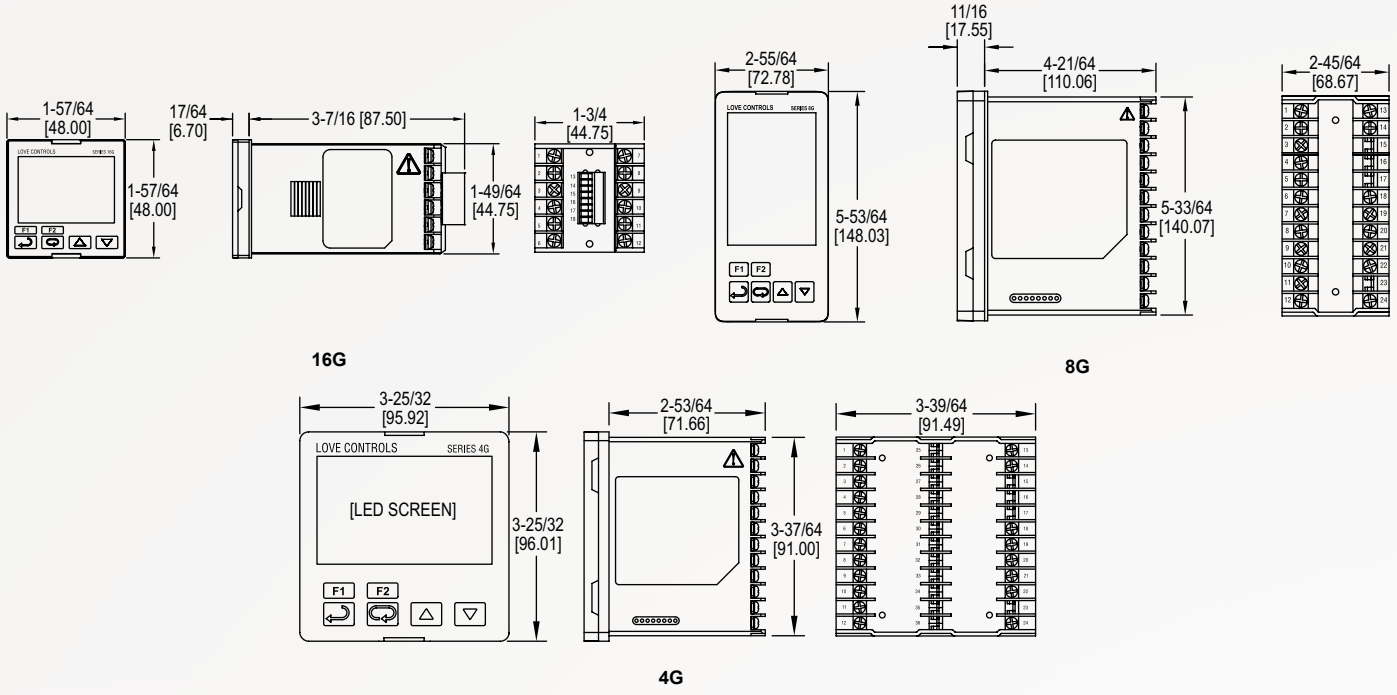
## DESCRIPTION

The **Series 16G, 8G, & 4G Temperature/Process Loop Controllers** allow for monitoring and control of temperature or process conditions. The controller features two independent control outputs for dual loop control using on/off, auto-tune or self-tune PID, fuzzy logic, or manual control methods. RS-485 interface is included with Modbus® communication protocol, for easy bench-top configuration or integration with a PLC or data control system.

## SPECIFICATIONS

| | |
|---|---|
| **Inputs** | Thermocouple, RTD, DC voltages or DC current. |
| **Display** | Process value: 4 digit, 0.47″ H (12 mm), orange LCD; Set point value: 4 digit, 0.47″ H (12 mm), green LCD. |
| **Accuracy** | ±1.8°F plus ±0.3% of span (±1°C plus ±0.3% of span) at 77°F (25°C) after 20 minutes warm up. |
| **Power Requirements:** | 100-240 VAC -20/+8%, 50/60 Hz; Optional 24 VDC, ±10%. |
| **Power Consumption** | 5 VA max. |
| **Operating Temperature** | 32 to 122°F (0 to 50°C). |
| **Storage Temperature** | -42 to 150°F (-20 to 65°C). |
| **Memory Backup** | Nonvolatile memory. |
| **Control Output Ratings** | Relay: SPST, 5 A @ 250 VAC resistive; Voltage pulse: 12 V (max. 40 mA); Current: 4-20 mA; Linear voltage: 0-10 V. |
| **Alarm Relay Ratings** | 3 A @ 250 VAC resistive. |
| **Communication** | RS-485 Modbus® ASCII/RTU communication protocol. |
| **Weight** | 9 oz (255g). |
| **Front Panel Rating** | IP66. |
| **Compliance** | CE, cULus. |

## DIMENSIONS




## HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

**16G** **-2** **3** **-1** **1** **-LV**

**SERIES**
**16G:** 1/16 DIN temperature/process loop controller
**8G:** 1/8 DIN temperature/process loop controller
**4G:** 1/4 DIN temperature/process loop controller

**OUTPUT 1**
**-2:** Voltage pulse
**-3:** Relay
**-5:** Current
**-6:** Linear voltage

**OUTPUT 2**
**-2:** Voltage pulse
**-3:** Relay
**-5:** Current
**-6:** Linear voltage

**OPTIONS**
**-LV:** 24 VDC power
**-BL:** No logo

**FUNCTION 2**
**-0:** None
**-1:** Event
**-2:** Input retrans
**-4:** CT input

**FUNCTION 1**
**-0:** None
**-1:** Event
**-3:** Input retrans
**-4:** CT input

## ACCESSORIES

| Model | Description |
|---|---|
| **A-277** | 250 Ω precision resistor |
| **A-600** | R/C snubber |
| **A-900** | Weatherproof front mount enclosure |
| **A-901** | Weatherproof internal mount enclosure with window |
| **MN-1** | Mini-Node™ RS-485 to USB Converter |
| **SCD-SW** | Configuration software |

# ORDER ONLINE TODAY!

dwyer-inst.com



**DWYER INSTRUMENTS, LLC**


Printed in U.S.A. 9/23

DS-16G-8G-4G Rev.1