RedLion®
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DA Series FlexEdge Strain Gage with SSR Output Module

Item number: DAM00PDSG2SA0000

The FlexEdge Strain Gage with SSR Output Module easily upgrades, adapts and expands almost any industrial application with a field-installable module. Rugged packaging built for long life and superior performance in harsh conditions. Single loop PID control with 2 strain gage inputs and 3 SSR and 1 analog outputs.

Enhance your DA70 controller to accept low level signals from various bridge-type transducers.

Features and benefits

✓ **Field-installable I/O for your DA76**

Do more with your DA70. Plugs easily into your FlexEdge for additional input and output capability. Auto-addressing minimizes configuration time.

✓ **Software selectable inputs**

Low level inputs (20 mV, 33 mV or 200 mV full scale) for bridge-type load cells and pressure and torque transducers. Each input channel provides 5 VDC or 10 VDC bridge excitation voltage.

✓ **DC analog output**

Selectable/programmable for 0-10 VDC, 0-20 mA, or 4-20 mA

✓ **Easy to use graphical interface**

Configured with Crimson® configuration software (version 3.2 or later). User-friendly web browser interface make it easy to set up new systems and recalibrate.

✓ **LED status monitoring**

One status LED shows module condition. Output LEDs indicate status of outputs. Alarm LEDs are lit during an internal alarm condition.

✓ **Leading industry certifications**

ATEX/IECEx and Class 1, Division 2 approvals for hazardous locations. ABS type approval for shipboard applications. CE approved and RoHS compliant.

✓ **Single PID control**

Perform virtually any combination of time proportioning or linear control. PID control with overshoot suppression that allows the quickest response without excessive overshoot.

✓ **Solid State Relay (SSR) outputs**

Three Solid State NFET relay outputs.

✓ **Flexible operation**

Module can operate in On/Off, P, PI, or PID control mode, and use an on-demand Auto-Tune. PID constants may be fine-tuned through the serial or Ethernet interface. Digital tare (re-zero), batch totalizer, and peak/valley (max/min) are provided.

✓ **Simple to set up and deploy**

Pluggable wire clamp screw block terminals are provided for the I/O wiring connections. Comes with an on-device wiring diagram.

✓ **Designed for harsh industrial environments**

Engineered to deliver uncompromising performance in demanding environments. IP30 enclosure. Operating temperature of -40 °C to 75 °C.

✓ **Power supplied by FlexEdge DA70 host controller**

Maximum power is 5.6 W with four 350 ohm bridges. Hot-swappable in non-hazardous locations.

DA Series FlexEdge Strain Gage with SSR Output Module

General

Net Weight (g)	0.01
Packed Width (mm)	215.9
Packed Height (mm)	127
Packed Depth (mm)	215.9
Packed Weight (g)	0.01
Operating Temperature °C Min	-40
Operating Temperature °C Max	75
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Relative Humidity	0 to 85% max. Relative humidity, non-condensing
Input Voltage (V)	0-10 VDC
Maximum Installation Altitude (m)	2000
Mounting	DIN rail mount (bracket included)
Housing Materials	Metal Housing, Plastic
Packaging Material	Cardboard
Warranty (years)	3

Identification and Status

Product ID	DAM00PDSG2SA0000
Country of Origin	United States of America (the)
HS Code	8517790000

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Identification and Status

Dual Usage	No
Export Control Classification Number (ECCN)	EAR99

Physical Features

Connectors / Input / Output	plug-in jacks
SD Card Slot	Yes
Flash Drive	No
Contains Battery	No

Certifications and Standards

Protection Class IP	IP30
RoHS Compliant	Yes
CE	Yes
FCC	No
UKCA	Yes
UL	Yes
ATEX	Yes
DNV	No
KC	No
Vibration and Shock	Shock: IEC 68-2-27: Operational 15 g; Vibration: IEC 68-2-6: Operational 5-500 Hz, 2 g