RedLion®
BY HMS NETWORKS

DA Series FlexEdge Strain Gage with Relay Output Module

Item number: DAM00PDSG2RA0000

The FlexEdge Strain Gage with Relay 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 relay 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 DA75

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

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.

Relay outputs

Three Form A 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 70 °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 Relay Output Module

General

Net Weight (g)	0.01
Packed Weight (g)	0.01
Operating Temperature °C Min	-40
Operating Temperature °C Max	70
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	DAM00PDSG2RA0000
Country of Origin	United States of America (the)
HS Code	8517790000
Dual Usage	No

Physical Features

Connectors / Input / Output	plug-in jacks
SD Card Slot	Yes

DA Series FlexEdge Strain Gage with Relay Output Module

Physical Features

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 60068-2-27: Operational 10 g; Vibration: IEC 68-2-6: Operational 5-500 Hz, 2 g