# Direct Current Transducers: Split-Core, Bi-Directional mA Output

## DC Applications

## APPLICATIONS

- Solar applications
- Battery chargers
- Motor armature current
- Motor field current
- Automotive loads
- Marine equipment
- Telecom

## FEATURES

#### Full-featured product maximizes versatility

- New patented Pulse Reset Technology<sup>™</sup> significantly increases accuracy...sensor is not affected by stray magnetic fields...no worry of magnetization from over-current faults
- User-adjustable span from ±20A to ±200A (H971 only)
- Self-gripping iris for easy installation
- Status LED ensures proper wiring...easy set up
- Mounting bracket can attach to housing in three places...installation flexibility
- Bracket is compatible with the AH01 DIN rail clip...mount product onto standard DIN rail
- 5-year limited warranty
- Range can be factory-set per customer specifications



### DESCRIPTION

The **Hawkeye 971 Series** provides accurate load level monitoring of DC current loads. Using new Pulse Reset Technology<sup>™</sup> with proven transducer circuitry, the H971 provides a superior solution for applications involving DC currents. It has no risk of permanent magnetization, ensuring longer life than traditional Hall Effect sensors.

The H971 has a user-adjustable span to allow greater application flexibility. The H971SP comes factory calibrated at a customer-specified fixed span for maximum accuracy.



## **SPECIFICATIONS**

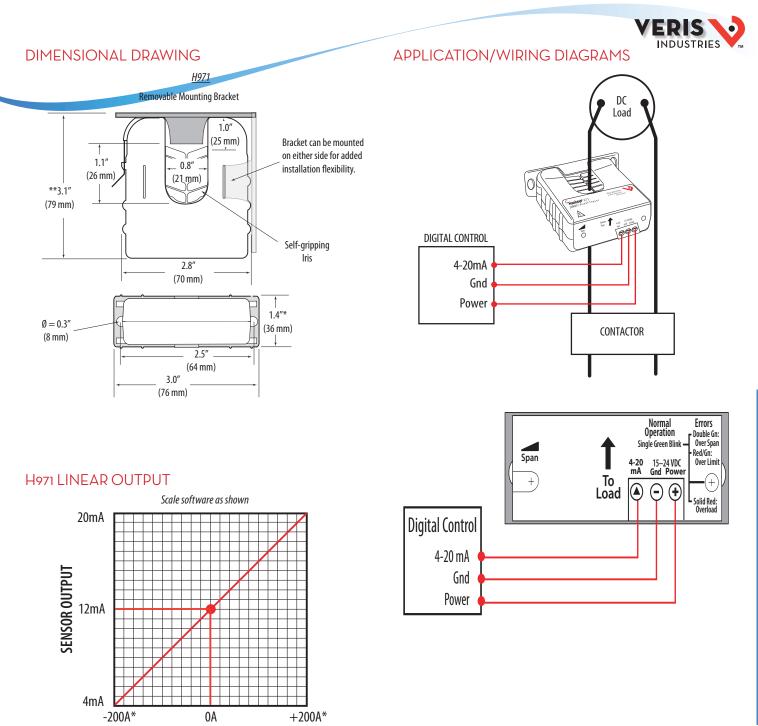
System Technology	Exclusive Pulse Reset Technology™
Amperage Range	±200 ADC
Sensor Supply Voltage	12-24VDC*
Supply Current	35mA max.**
Insulation Class	600VDC
Temperature Range	-30° to 60°C (-22° to 140°F)
Humidity Range	10-90% RH non-condensing
Output	Bi-polar 4-20mA (adjustable span)***
Accuracy Below 100A	±0.5A (combined linearity, hysteresis, and repeatability)****
Accuracy Above 100A	$\pm$ 0.5% full scale (combined linearity, hysteresis, and repeatability)****
Withstand Current	25,000ADC
Response Time	Less than 150 msec

\* For currents over 120A, supply voltage must be at least 15V.

\*\* At zero load current: 35mA max.; at 200A load current: 55mA to 100mA depending on supply voltage and current polarity.

\*\*\* Unless factory set per customer specifications.

\*\*\*\* For single conductor through product (no wraps).



SENSED AMPS \*Field Adjustable from ±20A to ±200A (not applicable to customer-specified factory scaled models)

# ORDERING INFORMATION ( C C CU) us

MODEL	AMPERAGE RANGE	SENSOR OUTPUT	HOUSING	STATUS LED	UL	CE	RoHS
H971	0 - 200 ADC	Bi-polar 4-20mA	Split-core				
H971SP	0 - 199 ADC*	Bi-polar 4-20mA	Split-core				

\* Range set in factory per customer specified value from 0 to  $\pm$ 20A through 0 to  $\pm$ 199A.

## ACCESSORIES

DIN Rail Clip Set (AH01) DIN Rail (AV01) and DIN Stop Clip (AV02)