

Ethernet/IP



HART 7



## SOLAHD COMMUNICATION MODULES

The digital transformation journey begins by leveraging the SolaHD Communication Module's (SCM) communication capability for increased efficiency and predictive maintenance. The SCM provides network connectivity support for one or two SDN-D Series high performance power supplies over popular industrial protocols. This allows key diagnostic data, alarms and operating parameters to be communicated to supervisory systems. Monitoring the health and performance of devices ensures greater reliability to reduce unscheduled downtime due to equipment failures, lower maintenance costs and extend equipment life. The SCM can be utilized to overcome operational challenges including machines and devices not offering condition monitoring, leading to unexpected downtime and the inability to identify problematic devices and schedule maintenance.

### APPLICATIONS

- Industrial Automation
- Process Control
- Material Handling and Conveyors
- Hazardous Locations

### FEATURES

- Monitor important power supply parameters to identify an abnormal condition
- Monitor power supply current and temperature and set alarm threshold
- Monitor power supply total turn on time to indicate end of useful life
- Monitor SCM temperature as a proxy for internal enclosure temperature
- Monitor power supply events, event counts, and the event logs (only SCM-E-EIP)
- LEDs for status indications
- Each SCM supports (2) SDN-D series power supplies
- Each SCM is shipped with (2) I2C cables for power supply connection

### CERTIFICATIONS AND COMPLIANCE

#### All Models

- - LV – IEC/EN 62368-1; IEC/EN 61010-1; IEC/EN 61010-2-201
- CB:
  - IEC/EN 62368-1; IEC/EN 61010-1; IEC/EN 61010-2-201; IEC/EN 60950-1
- US Listed, Ind. Control Equip., E61379
  - UL/CSA 61010-1; UL/CSA 61010-2-201

- US Recognized Component, ITE, E137632; Haz Loc E234790
  - UL/CSA 60950-1; UL/CSA 62368-1; UL 121201/CSA C22.2 No. 213 – Class I Division 2, Groups A, B, C, D, T4; UL/CSA 60079-0; UL/CSA 60079-7 – Class I, Zone 2, IIC, T4
- ATEX:
  - IIBG Ex ec IIC Gc
  - IEC/EN 60079-0; IEC/EN 60079-7
- IECEx:
  - Ex ec IIC Gc
  - IEC/EN 60079-0; IEC/EN 60079-7
- RoHS Compliant
  - EU RoHS
  - China RoHS

#### Model SCM-E-EIP

- - EMC – EN 55032 Class B; EN 61000-3-2; EN 61000 3-3; EN 61326-1; EN 55011 Group 1 Class B; EN 55035; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4
- CONFORMANT

#### Model SCM-W-HRT7

- - EMC – EN 55032 Class B; EN 61000-3-2; EN 61000 3-3; EN 55011 Group 1 Class B; EN 61000-6-3; EN 61000-6-4; EN 55035
- COMMUNICATION PROTOCOL

#### RELATED PRODUCTS

- Power Supply Redundancy (RED) Modules

**SOLAHD** For product information:  
www.solahd.com  
1.800.377.4384



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SPECIFICATIONS

Catalog Number	SCM-E-EIP	SCM-W-HRT7
<b>General</b>		
Protocol	Ethernet/IP (ODVA Conformant)	HART 7 (Fieldcomm Group Registered) ①
<b>Physical</b>		
Power Supply Connection	Either 1 or 2 SDN-D Power Supplies can be supported by a single SCM module. Power and communication are provided with included 8 inch cables.	
Network Connection and Topologies Supported	Dual RJ-45. Pass-through. Star, Linear, or Device Level Ring.	2-wire terminal connection. Point-to-Point or Multidrop.
Transmission Speed	10 Mbps, 100 Mbps	FSK HART – 1200 baud
Transmission Medium	Shielded CAT6 Twisted-pair cable	Individual shielded twisted-pair cable
<b>Data</b>		
Power Supply Parameters	Output Voltage, Output Current, Input Voltage, Power Supply Temperature, Max Output Voltage, Max Output Current, Max Input Voltage, Max Power Supply Temperature	
Power Supply Alarms and Warnings	Output Short Circuit, Over Voltage, Over Temperature, Power Boost	
User Configurable Warnings	Output Current, Power Supply Temperature	
Power Supply Timers	Lifetime, Time since last DC power up	
Power Supply Counters	Output Short Circuit, Over Voltage, Over Temperature, Power Boost	
Other Data	Part number, Serial number, Revision number, Power Supply Status, SCM Status, SCM Temperature	
<b>Weight and Dimensions</b>		
H x W x D - in (mm)	5.51 x 1.00 x 4.27 (139.94 x 25.46 x 108.41) with sliding arm 4.85 x 1.00 x 4.27 (123.28 x 25.46 x 108.41) without sliding arm	
Weight - oz (g)	5.7 (161)	4.8 (137)
<b>Environmental</b>		
Temperature °C (°F)	Storage: -40 to +85 (-40 to +185) Operating: -40 to +70 (-40 to +158)	
Humidity	5% to 95% RH, noncondensing	

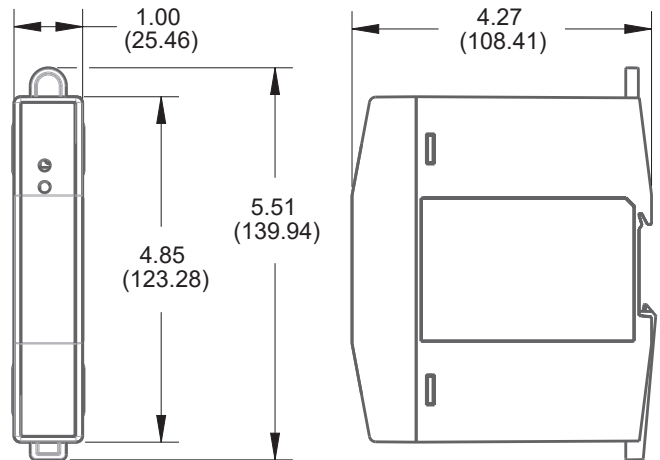
NETWORK AND MODULE STATUS INDICATORS

SCM-W-HRT7 LED Indicator	Status	Meaning
Module Status	Green, steady	Normal operation, no errors
	Red, blinking	Incompatible supply connected
Alarm Status	Green, steady	No alarm/alerts active
	Green, blinking	Device Alert active - Maintenance
	Red, blinking	Device Alert active - Failure
	Amber, blinking	Process Alarm active

SCM-E-EIP LED Indicator	Status	Meaning
Module Status	Off, steady	No power
	Green, steady	Device operational
	Green, blinking	Standby
	Red, blinking	Major Recoverable Fault
	Green/Red, blinking	Self-test
Network Status	Off, steady	Not powered, no IP address
	Green, steady	Connected
	Green, blinking	No connections
	Red, blinking	Connection timeout
	Red, steady	Duplicate IP
Green/Red, blinking	Self-test	

① Registration pending.

DIMENSIONS - IN (MM)



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