

Condition Monitoring Custom Products

CMCP-ADC Series Analog to Digital Converters

Features:

- 14 Bit A/D for precision measurements
- Smart filtering rejects noise
- Redundant Outputs
- User choice of integration time - speed vs. filtering
- Field replaceable current shunts save maintenance time
- Ethernet and RS-485 Outputs Per Unit
- Available for Analog, Voltage, RTD's, Thermocouples and Relays



Specifications: See Page 2 Additional Information

Number of channels	8 or 16
A/D resolution	14 bits (0.01%)
Full scale accuracy (@20°C)	+/- 0.05%
Span and offset temp. coefficient	+/- 50 ppm per °C typical
Input impedance	100 Ohms
Fastest scan rate	(16 channels) 5 mS
Required supply voltage	10-30 VDC (0.75 watt typical)
Operating temperature range	-30 to 70° C
Storage temperature range	-40 to 85° C
Humidity (non-condensing)	5 to 95%
Protocol	SIXNET "I/O for Windows" and Modbus ASCII and RTU
Baud rate	38,400 bps
Recommended distance	Up to 0.5 mile
Isolation (from Ethernet port)	1200 Volts RMS 1 minute

Ordering Information:

Part No.	Description
CMCP-ADC-16AI	16 4-20mA Inputs
CMCP-ADC-32AI	32 4-20mA Inputs
CMCP-ADC-16VI	16 Voltage Inputs
CMCP-ADC-32VI	32 Voltage Inputs
CMCP-ADC-16TC	16 Thermocouple Inputs
CMCP-ADC-16RTD	16 RTD Inputs
CMCP-ADC-16RLY	16 Channel Relay Output



STI Vibration Monitoring Inc.

Vibration Monitoring and Machine Protection Systems

1010 East Main Street, League City, TX 77573 Phone: 281.334.0766 Fax: 281.334.4255
www.stiweb.com / www.stiwebstore.com

Condition Monitoring Custom Products

CMCP-ADC Series Analog to Digital Converters

CMCP-ADC-16AI and CMCP-ADC-32AI Specifications:

Input range: 4-20mA
A/D resolution: 16 bits (0.003%); 10 bits (1mS fast option)
Input impedance (resistance): 100 ohms or 200 Kohms
Fuses: self-resetting short circuit protection
DMRR (differential mode): 66 db at 50/60 Hz
Update time: from 880 mS to 1 mS (depending configuration)
Temperature accuracy: typical un-calibrated +/-0.5°C

CMCP-ADC-16VI and CMCP-ADC-32VISpecifications:

Input range: 0-10 VDC
A/D resolution: 16 bits (0.003%); 10 bits (1mS fast option)
Input impedance (resistance): 100 ohms or 200 Kohms
Fuses: self-resetting short circuit protection
DMRR (differential mode): 66 db at 50/60 Hz
Update time: from 880 mS to 1 mS (depending configuration)
Temperature accuracy: typical un-calibrated +/-0.5°C

CMCP-ADC-16TC and CMCP-ADC-16RTD Specifications:

Input range: RTD and Thermocouple
A/D resolution: 16 bits (0.003%); 10 bits (1mS fast option)
Input impedance (resistance): 100 ohms or 200 Kohms
Fuses: self-resetting short circuit protection (4-20 mA inputs)
DMRR (differential mode): 66 db at 50/60 Hz
Update time: from 880 mS to 1 mS (depending configuration)
Temperature accuracy: typical uncalibrated +/-0.5°C
RTD type: 100 Ohm platinum
RTD alpha: 0.00385 or 0.00392
RTD connections: 2 or 3-wire
RTD input range: -200 to 850°C

CMCP-ADC-16RLY Specifications:

Output voltage range: 10-30 VDC or 10-30VDC/AC
Maximum output power: up to 1A per channel
Short circuit protection: self-reset fuses (trip above 1.5 Amp)
Input isolation: 150 volts (16 channel modules only)
All channels scan rate: 1 mS

CMCP-ADC Series Physical Specifications:

Mounting: DIN rail (EN50022), direct to panel or flat panel
Packaging: impact resistant Lexan® polycarbonate
Dimensions (module and base): 5.5"L x 3.5"W x 5.1"H (14cm x 8.9cm x 13cm)

Certifications and Standards:

Electrical safety : UL 508, CSA C22.2/14; EN61010-1 (IEC1010); CE
EMI emissions: FCC part 15, ICES-003, Class A; EN55022; EN61326-1; CE
EMC immunity : EN61326-1 (EN61000-4-2,3,4,6); CE
Hazardous locations: Class 1, Div 2, Groups A, B, C, D; UL 1604; CSA C22.2/213; Cenelec EN50021 Zone 2
Marine and offshore: tested and/or verified to meet various standards such as DNV No. 2.4, Lloyds and ABS