

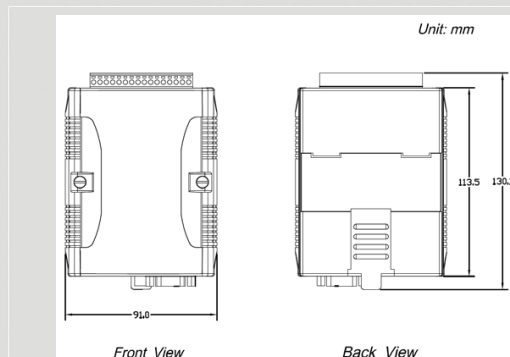


PROFIBUS Series Products

PROFIBUS Remote I/O Module



PROFI-5017



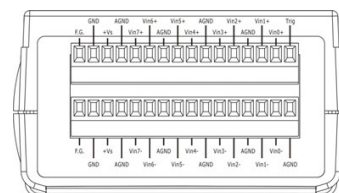
Dimensions

The PROFI-5017 is one of the PROFIBUS DP series products produced by ICP DAS. It provides the PROFIBUS DP communication protocol with any DP-Masters. The PROFI-5017 provides $\pm 4\text{kV}$ ESD protection contacting for all terminals (include I/O Terminals and PROFIBUS connector). By applying the PROFI-5017, users can easily establish a PROFIBUS DP network with other DP-Masters. In advance, it can be used in the application of building automation, remote data acquisition, environment control and monitoring, laboratory equipment & research, factory automation, etc..

Features

- Support for PROFIBUS DP-V0 protocol
- Detect transmission rate automatically (Max. 12Mbps)
- Support device-related & channel-related diagnosis
- Address 0~126 set by rotary switches or SSA telegram
- 14-bits resolution & 100kps AD converter
- Network isolation protection
- $3000V_{DC}$ isolation protection on PROFIBUS
- 4kV ESD protection (contact for any terminal)
- Wide range of power input (DC 10~40V_{DC}) and operating temperature (-25°C~+75°C)

Pin Assignments



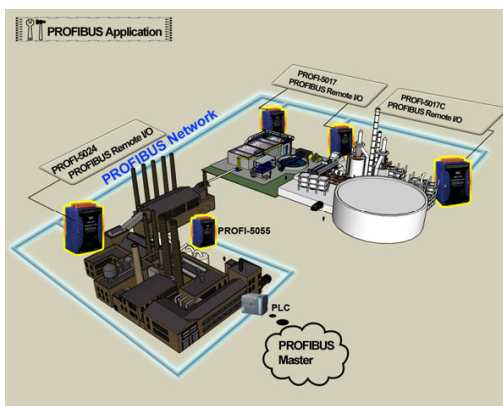


Hardware Specifications

Hardware	
CPU	80186, 80 MHz or compatible
SRAM/Flash/EEPROM	512 KB / 512 KB / 2 KB
Watchdog	Watchdog IC, CPU built-in
ESD Protection	4 kV class A
PROFIBUS Interface	
Controller	Siemens SPC3
Transceiver	ADI ADM2486
Connector	9-pin female D-Sub
Baud Rate (bps)	9.6 k, 19.2 k, 45.45 k, 93.75 k, 187.5 k, 500 k, 1.5 M, 3 M, 6 M, 12 M
Transmission Distance (m)	Depend on baud rate (for example, max. 1200 m at 9.6 kbps)
Isolation	3000 V _{DC} for DC-to-DC, 2500 Vrms for bus-to-logic
Protocol	DP-V0
UART Interface	
COM	RS-232 on board (For updating firmware) ^{Note 1.}
I/O	
Analog Input	8 channel differential voltage input, Isolation Voltage:2500Vrms
Input Range	+/- 10V, +/- 5V, +/- 2.5V, +/-1.25V
Accuracy	+/- 0.1 of FSR
LED	
Round LED	PWR LED, RUN LED, ERR LED
Power	
Power supply	Unregulated +10 ~ +40 V _{DC}
Protection	Power reverse polarity protection, Over-voltage brown-out protection
Power Consumption	3W
Mechanism	
Installation	DIN-Rail
Dimensions	91 mm x 128 mm x 52 mm (W x L x H)
Environment	
Operating Temp.	-25 ~ 75 °C
Storage Temp.	-40 ~ 80 °C
Humidity	5 ~ 95% RH, non-condensing

Note 1: CA-0904 : transform from 4-pin connector to 9-pin Female D-Sub connector.

Application



Ordering Information

PROFI-5017 CR	PROFIBUS Remote I/O Module (8-Ch Isolated Analog Voltage Input)
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