



IRIG B TO NTP/SNTP CONVERTER – SPC-INS-1010

IRIG B TO NTP/SNTP CONVERTER – SPC-INS-1010 is a compact DIN rail mountable protocol converter unit which synchronizes and maintains the timing and frequency requirement of power and process industry equipment using IRIG-B signal obtained from GPS receiver. It provides nanosecond accuracy when external time references are not available. It has the storage facility to store the system log file. It delivers NTP, SNTP, PFC-Pulse, RS232 & RS485 outputs. The system enables configuration and monitoring through Web-based application. It supports a wide range of power supply input either 90V-260V AC/DC or 18-36VDC or 36V-72VDC. Protocol converters are used in providing integrated solutions while connecting up sub-systems using a different communication protocol.

FEATURES

- ◊ IRIG-B is a Time Reference from any GPS Receiver
- ◊ High free-running accuracy
- ◊ Year and Time offset are users adjustable
- ◊ Compact Din Mountable System
- ◊ Configuration can be done through Ethernet
- ◊ 10/100Mbps NTP/SNTP Ethernet output
- ◊ Accepts IRIG-B AM and TTL time signals
- ◊ Battery backup provided for the time update
- ◊ Adjustable Time Zone
- ◊ Events storage facility
- ◊ Isolated and protected Interfaces
- ◊ The input power supply can be customized

APPLICATIONS

- ◊ Event Loggers
- ◊ Disturbance Recorders
- ◊ Electronic tri-vector meters
- ◊ Phasor measurement unit
- ◊ SCADA servers
- ◊ Numeric Relays
- ◊ Slave clocks
- ◊ Servers of EMS
- ◊ Electronics Instruments
- ◊ Standalone computers

TECHNICAL SPECIFICATION

Power Supply

Standard	85 to 260V AC, 1 ϕ , (47Hz to 63Hz) or 90V to 370V DC
Custom	36V to 72V DC (48V), 18V to 36V DC (24V)
Power Consumption	<10W

Input Signal

IRIG B (AM)	Carrier : 1KHz Modulation Ratio : 3:1 Recommended Vin : 1V-7V (p-p)
IRIG B(PWM/TTL)	Logic 0 : 0V+ 250mV Logic 1 : 3V to 5V+10%
Connector	BNC, Female

Environment

Operating Temp	0° to 50°C
Humidity	95% Non Condensing

Mechanical

Enclosure	DIN Rail/Wall Mountable
Dimension	70mm(H) x 190mm(W) x 200mm(D) \pm 5mm
Weight	<1.5Kg
Protection Class	IP20

Event Output (Pulse Output)*

User Configurable	
Pulse output	PFC, 250V AC/DC, 0.2A (PPS, PP5S, PPM, PPQH, PPHH, PPH, PPD)
Number of Output	1No Max
Connector	Pluggable Terminal Block

Ethernet Output

Protocol	NTP & SNTP
Speed	10/100MBps
Connector	RJ45
Distance	100m max without a switch.
Number of port	1 x 10/100MBps Max 2 x 10/100MBps*

RS232 Output

Output	Modbus, NMEA and standard formats
Distance	15m
Connector	DB9, Female

RS485 Output*

Output	Modbus, NMEA and standard formats
Distance	1200m
Connector	Pluggable Terminal Block

Note: *Optional

Prices are subject to actual requirements, contact sales for pricing

Product development is continuous process- Specification Subject to change

IRIG B TO NTP/SNTP CONVERTER 16/08/24

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