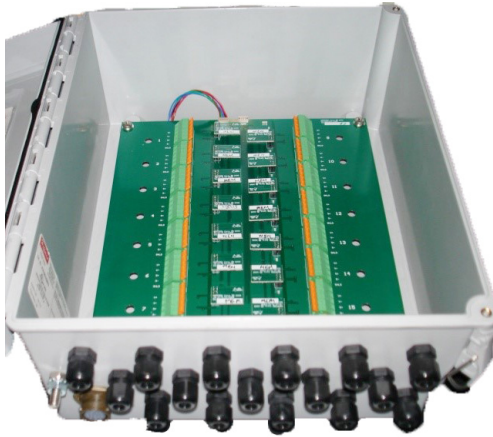


iSite® i3100 Device Interfaces



The iSite® i3100 sensor interface devices allow for the connection of sensors to the iSite® i3000 controllers. Each interface consists of a WINBOND W77LE58 CPU telecommunication programmed to exchange information between the controller and the sensor interface. Supported sensors include serial sensors, vibrating wire sensors, bridge sensors, 4-20 mA and differential voltage sensors. The i3100 comes with 8 or 16 channels. Different sensor types can be connected to the same device by using the appropriate SCU chip(s) (specify sensor types with order). Custom sensor interfaces can also be built to fit your needs.

Example Part Numbers

- To interface 8 channels of vibrating wire sensors without lightning protection using plastic case and internal push pin connectors use *i3100-VBWIR-08-NO-06*
- To interface 16 - 120 ohm strain gages with full bridge completion circuit and lightning protection in plastic case with external bayonet connectors, use *i3100-SG120-16-LP-02*

SPECIFICATIONS:

POWER SUPPLY

External: VDC via Serial Interface
Bus from *i3000* controller

POWER CONSUMPTION

Average current in continuous operation: 30 mA
Average current in sleep mode: 10 mA

OPERATING ENVIRONMENT

Temperature: -25° to +80°C
NEMA 4 moisture resistant enclosures

PERIPHERAL INTERFACES

Serial Interface Buses via MIL-C-26482 12-10 S circular bayonet lock connector

STANDARD PACKAGES *i3000-XX-YY-ZZ*

AA - Number of Sensors

02: Two channels
04: Four channels
08: Eight channels
16: Sixteen channels

BB - Sensor Type

ANUNI: Analog unipolar
ANBIP: Analog bipolar
CUSTM: Customized
DIGITL: Digital I/O
SG120: Strain gage 120 ohm
SG240: Strain gage 240 ohm
SG350: Strain gage 350 ohm
VBWIR: Vibrating wire

CC - Lightning Protection

NO: No lightning protection
LP: With three stage lightning protection

DD - Enclosure

01: Metal with external bayonet connectors
02: ABS plastic with external bayonet connectors
03: Metal with external Hiroshie connectors
04: Plastic with external Hiroshie connectors
05: Metal with internal push pin connectors and moisture resistant cable glands
06: Plastic with internal push pin connectors and moisture resistant cable glands