Limited Only By Your *Imagination*

Serial Modbus Receiver Unit

Model IIoT-6100 Series

SolutioNet™ 4.0

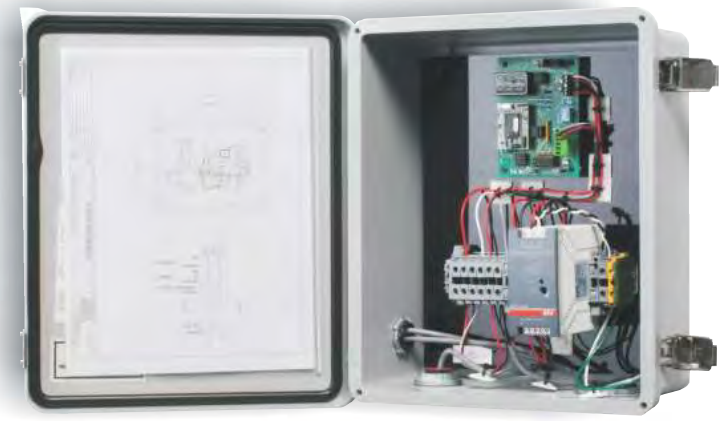
The IIoT-6100 series is a communications processor paired with an external receiver (IIoT-6000) or can be built with the receiver card internal to the enclosure. It provides a communication and data interface between IIoTTTI reporting systems and customer DCS systems via Modbus (ASCII or RTU) responses to customer polling commands for status and/or measurement data, or to a hosted, secure, remote server platform. All communication to the IIoT-6100 series is by wireless transmitters; communication to/from the IIoT-6100 series units to the customer's DCS is by serial RS-232 or RS-485 connections for the Modbus commands/ responses or by cellular card to a secure, hosted off site platform with SolutioNet 4.0 portal for visualization. Logic, control, and communication functions are provided by a micro controller computer. Use of a system watchdog timers and auto run features integrated into the hardware and multi-tasking operating system allow the IIoT-6100 series to automatically continue operations following system interruption due to power outages. This model is scalable to accommodate up to 15 Modbus boards allowing for large expansions of wireless sensors.

This Datasheet Contains Protected Information

Communications Processor with integrated receiver that interfaces with most DCS operating systems utilizing Modbus protocol

Specifications:

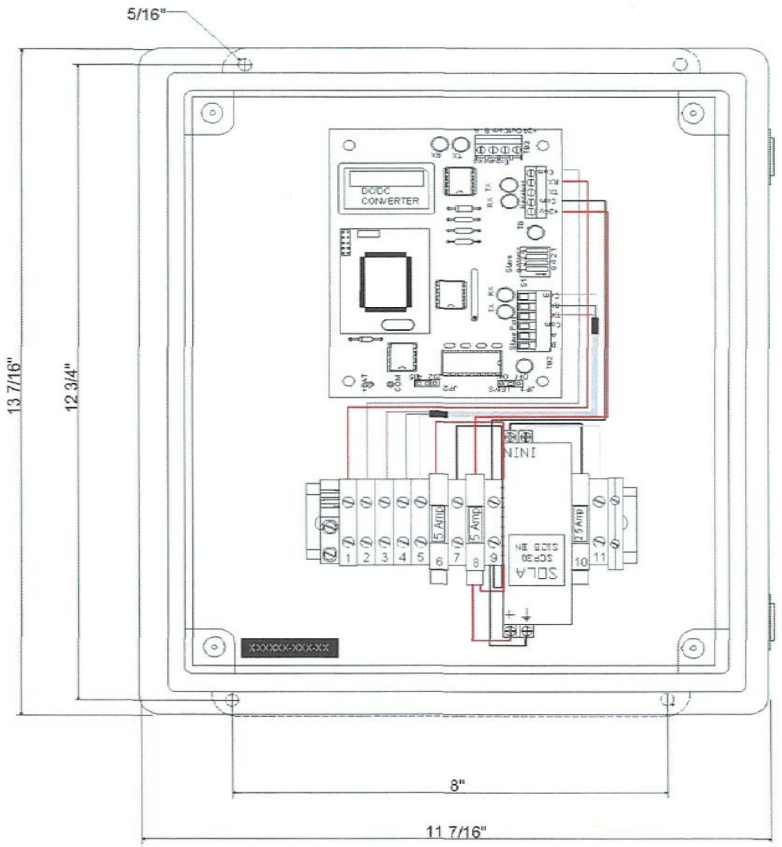
• Operating frequency	900 MHz (US), 868 MHz (Europe)
• User interface	RS-232 or RS-485
• Baud rate	9800-19200 baud
• Comm Parameters	Configurable
• Max Polling rate	Less than 2 seconds
• Diagnostic port	Laptop or PC interface
• Operating temperature	(-40°F to +185°F) (-40°C to +85°C)
• Humidity	5-95% non-condensing
• Operating power	9-16 VDC
• Supply voltage	110 VAC
• Enclosure	Fiberglass NEMA 4X, Size variable based on Modbus board count
• Weight (Without battery)	Variable based on configuration
• Mounting	Pipe, (1.5 in) (3.8 cm), Wallmount, Unistrut

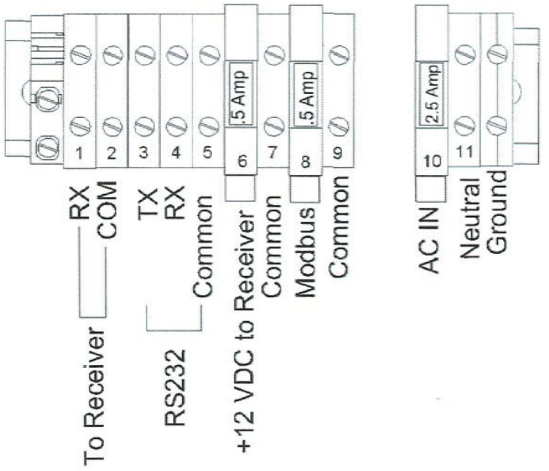


Please refer to the test sheets for final parameters

IIoT Technology Innovations, LLC
TX, USA Model: IIoT-6XXX Receiver
CE Ex II 3 G D
Ex nA IIC T6
Cl I, Div 2, Grp A,B,C,D; Cl II, Div2, Grp E,F,G, T6
Cl I, Zone 2, A/Ex nA IIC T6 Type 4X
-20°C ≤ Ta ≤ +40°C
Electrical Ratings: Un/Vn = 12 vdc, Imax = 500 mA
CAUTIONS: OPEN CIRCUIT BEFORE REMOVING COVER.
KEEP COVER TIGHT WHILE CIRCUITS ARE LIVE.
WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.
DO NOT DISCONNECT EQUIPMENT UNLESS THE AREA IS KNOWN TO BE NON-HAZARDOUS.

www.iiottti.com
(832) 458-8107
24130 State Highway 249 Suite 150
Tomball, TX 77375





					CK'D	IIOT-6101 SERIAL MODBUS BOX 2	Board Count: 1
					APV'D		
					SHEET 1 OF 1	Wiring and General Arrangement	
-	INITIAL RELEASE		10/06/21		DRAWING NO: 6101-WGA	Part Number: IIOT-6101	For use with IIOT-6000
REV	DESCRIPTION	BY	DATE	APV'D			

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