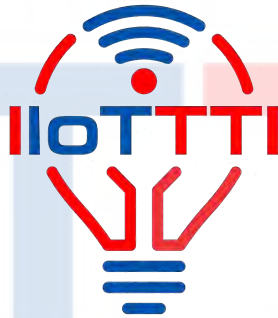




IOT Technology Innovations LLC

SolutioNet™ 4.0



Limited Only By Your *Imagination*

What is SolutionNet™ 4.0?

Integrated Data Connectivity

- S**eamless integration into new and existing field instrumentation providing maximum flexibility
- O**pen architecture that supports analog, digital, modbus and serial data from the field to your receipt point(s)
- L**ess expensive option than other alternatives such as conduit and wiring or even other wireless systems requiring AC power
- U**nterrupted signal communication utilizing the most advanced 900 MHz spread spectrum and frequency-hopping technology proven to operate in the harshest of environments
- T**ransmission in environments typically not suitable for hard wired or other types of data transfer
- I**ntegrity of the network infrastructure is critical and IOTTTI works with the customer to build the system required to operate all the time in all types of situations
- O**ptimal performance for IOTTTI does not require line of sight; we excel in establishing wireless communication from the hard to reach places in your facility to your receipt point(s)
- N**etwork design can be as simple as one receipt point, as broad as thousands of points, or varied protocols processing into 10 or more locations around the globe
- E**ach customer receives a wireless network designed to accommodate both today's needs and the plant's future expansion goals
- T**echnology that has 30 years of proven experience and success





SolutioNet™ 4.0

Making the impossible possible
and the difficult easy!

Consider the size and scope of your facility. Not just the part you walk every day, but down the long corridors into the farthest reaches of the plant. That's how far IIOTTTI goes. There are no practical obstacles for our technology because we transmit your signals over, under, around, and through the toughest of barriers.

IIOTTTI LLC began marketing this amazing technology established in 1993. Right away, plant managers saw the advantages gained by switching to wireless and began installing systems throughout their facilities. The next natural step was to expand wireless to remote areas without AC power and into areas that were almost inaccessible. For the installation requiring only line-of-sight, it was easy enough to make them work. But what about the difficult to reach places; the places where monitoring was needed but seemed impractical? Not to worry. These are the conditions in which IIOTTTI thrives.

Our patented technology and technical expertise opens up those previously difficult to get to places. Immediately data starts to flow. Better business decision can be made. Equipment uptime is improved, productivity increased, employee safety enhanced and profits are on the rise.

Wireless is wonderful when it works!

Here are three reasons why IIOTTTI is succeeding while others are failing.

Reason 1

SolutioNet-4.0

If you look closely at other wireless solutions offered today, you'll notice that not all wireless methodologies are truly wireless. Some parts are wireless, but other portions rely on wires. Why? It's an extremely complex process to transmit wireless data from difficult to reach places without line of sight. Not every provider can achieve this. It takes experience, expertise and proven equipment to get the job done. SolutioNet. 4.0 is the right choice.

Reason 2

Our design architecture is flexible and scalable

After a site survey and assessment by IIOTTTI highly experienced technicians, you will receive a written proposal outlining our recommendations along with a complete system design. Our clients are pleased to learn they need not discard existing devices. We blend them in with our network

architecture creating the optimum solution. Because of this ability to minimize expenses, our clients can expand their present systems past the current facility to other remote places and even around the globe. Whatever wireless solution you need, IIOTTTI can design and implement it.

Reason 3

We offer flexible data integration options

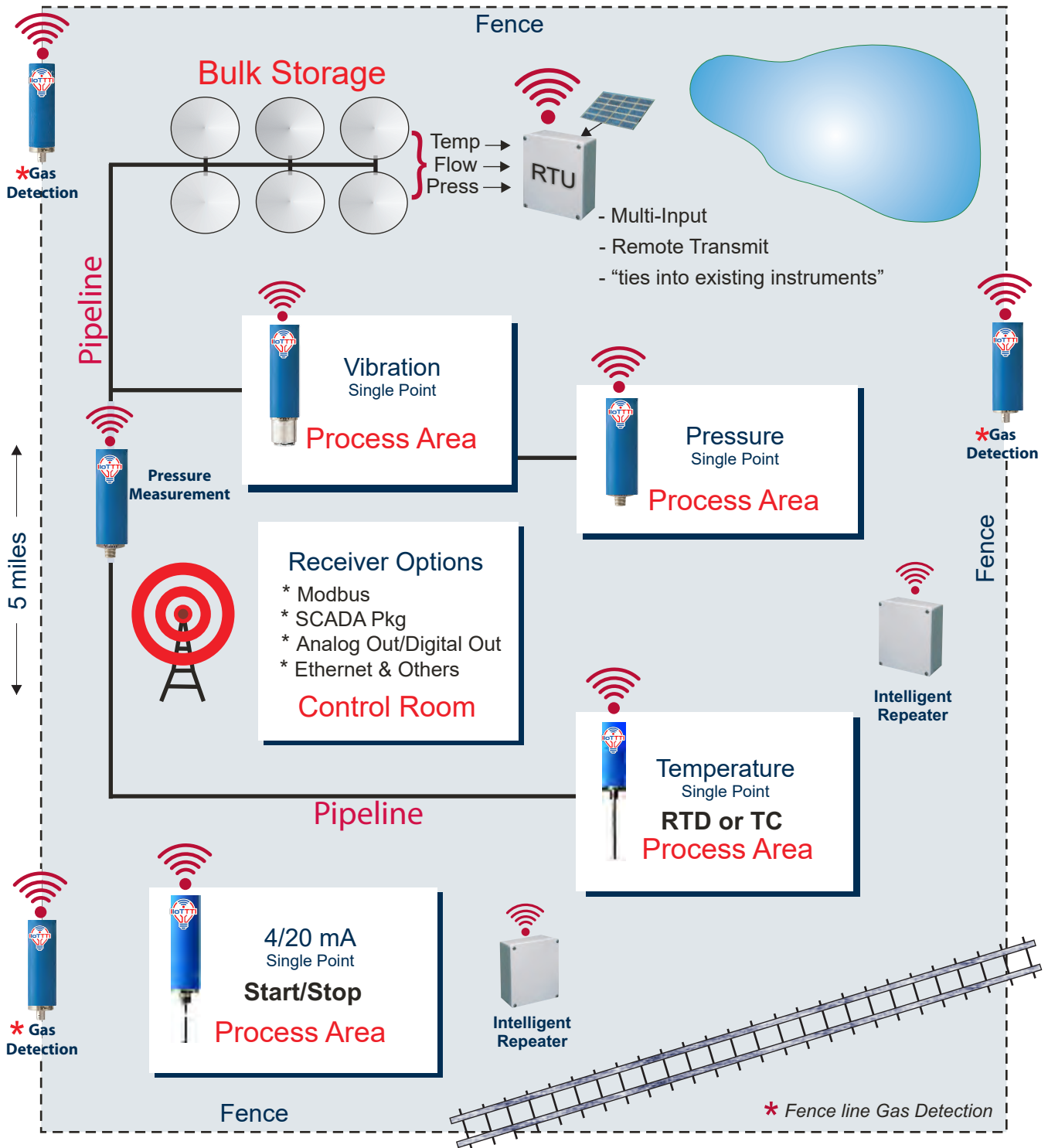
IIOTTTI understands the need for different areas of your facility to receive only the data that is relevant to their particular operation and nothing more. The IIOTTTI SolutioNet 4.0 architecture permits the routing of data streams to various selected receipt points while maintaining complete data integrity. SolutioNet 4.0 is also designed to support integration into your DCS, your SCADA package or ours, or elsewhere. This can all be done using Ethernet, an IO rack, Modbus or other serial input methods. Your wireless communication needs are essentially limited only by your imagination.



Our wireless is more than just smart;
it's global.



SolutioNet™ 4.0



TYPICAL WIRELESS ACTIVITY IN A PLANT ENVIRONMENT



Applications and Our Products

Flow Monitoring

Wherever flow monitoring devices are being used and your output is needed in a hurry, the IIOTTTI Model 1010-4/20 single point wireless transmitter is your correct choice. Operating as a self-contained, self-powered unit, digital or analog (4/20mA) signals are gathered and securely sent to a local control room or around the globe when using the powerful communication abilities of SolutioNet™ 4.0. Flow monitoring devices from other manufacturer-ers can be integrated into the open system design thus maximizing asset usefulness.

Gas Detection

IIOTTTI single point gas emissions sensing and monitoring devices provide reliable and economical environmental data using their self-contained, self-powered capacity. In areas where AC power is limited or unavailable, and in unfriendly and hostile areas, IIOTTTI's wireless solutions mean the difference between success and failure. Their patented devices are certified for use in both atmospheric and submersible environments with flexible operating ranges as defined by the specific application (LEL, ppm, ppb). They are self-powered or can be connected to existing loop power if available (DC or AC).

Level Monitoring

In the case where data from one or

more level monitoring devices are required at remote sites, the IIOTTTI Remote Transmitting Unit (RTU) accepts multiple analog (4/20mA) or digital signals from various devices and transmits them wirelessly to the control room and/or other remote locations is the optimal solution, economically and operationally. Where loop power is not available, IIOTTTI RTUs, solar powered with battery backup, can provide continuous power to any instrument designed to be loop powered.

The RTU can also be equipped with and independent high and/or low level alarm for reading a set of dry contacts. Utilizing IIOTTTI RTUs, system expansion is virtually unlimited. IIOTTTI RTUs are unique in the industry, allow for virtually unlimited flexibility in the system, are unequaled in performance and reliability, and are among the most important technical advances in wireless data acquisition, transmission and integration to date.

Temperature Monitoring

Where loop powered temperature monitoring instruments are already in use and the output data is required at remote locations, the use of IIOTTTI single point wireless transmitters brings the signal to the control room or wherever needed, without costly hard wiring. IIOTTTI can integrate data from other temperature monitoring devices outputting

analog (4/20mA) or digital signals and transmit wirelessly using our single point transmitters powered by battery or the existing loop. These devices have a range of ¾ miles which can be increased to over 7 miles using IIOTTTI Intelligent Repeaters.

Vibration Monitoring

Where loop powered vibration monitoring instruments are already in use and the output data is required at remote locations, the use of IIOTTTI single point wireless transmitters brings the signal to the control room or wherever desired, without costly hard wiring. IIOTTTI can integrate data from other vibration monitoring devices outputting analog (4/20mA) or digital signals and transmit wirelessly using our single point transmitters powered by battery or the existing loop. These devices have a range of ¾ miles which can be increased to 7 miles using IIOTTTI Intelligent Repeaters.

Our Products:

IIOTTTI data acquisition equipment efficiently and economically monitors hydrocarbons, pressure, flow, temperature, volume, and vibration in tanks, pipelines, pumps, fans, and rotating equipment through-out your facility. Our equipment can also be used for remote process control, operation, and alarming.





Limited Only By Your *Imagination*

Pressure Monitoring

Model IIoT-1020/IIoT-1060

IIOTTTI employs any number of methods with our unique devices for monitoring pressure data and transmitting it wirelessly to a SCADA site in the plant, multiple offsite facilities, or around the globe. In plant areas where AC power is limited or unavailable, an IIOTTTI communication system assures economical acquisition and timely availability of vital physical property data. Even while working in some of the most demanding and totally congested locations and environments, the performance, reliability, and service life of IIOTTTI equipment is unequalled.

Each device has a self-transmitting range of $\frac{3}{4}$ mile or 1.2 km. For longer transmission distance requirements, the use of the IIoT-5000 series Intelligent Repeaters increases the effective communication range to 7 miles or 11.3 km. For off-site transmission of critical data, use of the SolutioNet™4.0 system can be included for ultimate integrated data connectivity.

SolutioNet™ 4.0

This Datasheet Contains Protected Information

Typical applications for IIOTTTI pressure monitoring devices include pipelines, pump suction and discharge, vessels, reactors, stack and tanks, etc.

IIOTTTI technologies provide

remote pressure monitoring at a fraction of the cost of FCC Licensed wireless systems

The IIOTTTI single point pressure device is packaged in a single self-contained, self-powered unit. The patented IIoT-1020 series is available with various operating ranges required for specific customer applications. Examples of stock ranges:

- 0-25psi (0-1.7bar)
- 0-50psi (0-3.4bar)
- 0-100psi (0-6.9bar)
- 0-250psi (0-17.2bar)
- 0-500psi (0-34.5bar)
- 0-1000psi (0-69.0bar)

Other ranges (including vacuum) available on request.

The IIoT-1060 model also employs an imbedded temperature element (RTD) for temperatures up to 185°F (85°C).



Connection to process systems via 1/2in MNPT. Optional isolation devices are available for high temperature or high pressure applications.

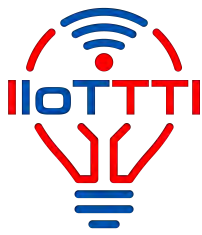
Please refer to test sheets for final parameters

Ex ia

© 2022 All rights reserved. IIOTTTI reserves the right to change this datasheet without notice

www.iiottti.com
(832) 458-8107

24130 State Highway 249 Suite 150
Tomball, TX 77375



Limited Only By Your *Imagination*

Vibration Monitoring

SolutionNet™ 4.0

Model IIoT-1030/IIoT-1050

Efficient and reliable vibration monitoring will lengthen service life in all types of rotating equipment. The IIoT-1030 (vibration node) and IIoT-1050 (Vibration/Temperature node) efficiently captures vibration data and transmits it wirelessly to wherever needed. Armed with this information, management can make timely and less disruptive decisions for major machinery repair. The IIoT-1000 series is configurable as a self-contained, self-powered unit that works in synchronization with existing SCADA systems as well as all IIOTTTI wireless data acquisition instrumentation and software.

The IIoT-1030 and 1050 models utilize a triaxial accelerometer with a frequency range of 4-1000Hz, and a calibrated amplitude range of 0-1ips (0-25.4mm/s). The IIoT-1050 combination unit comes standard with a 1000 Ohm Platinum RTD that monitors temperatures ranging from (0° to 185°F) (-17.7° to 85°C). Both devices are certified for Class I Div I / Zone 0 ATEX environments.

Before shipment, all devices are NIST calibrated by IIOTTTI technicians to precisely measure operating ranges as defined by specific customer application.

Each device has a self-transmitting range of $\frac{3}{4}$ mile or 1.2 km. For longer distance requirements, the use of IIoT-5000 series Intelligent Repeaters expands the effective transmission range to 7 miles or 11.3 km. For offsite or global transmission, other communication methods can easily be added to the final system configuration. This includes, but is not limited to, traditional wired solutions,

fiber optics, modems, satellites, wireless devices, etc.

IIOTTTI has the perfect wireless solution to capture, transmit, and integrate valuable data. In areas where AC power is limited or unavailable, IIOTTTI wireless devices are the instruments of choice. Their performance, reliability, and toughness are unmatched in the industry.

Typical applications for these devices include point monitoring on rotating equipment such as motors, blower or fan housings, pump bases, compressor frames, bearing housings, skid frames, etc.

- Triggered Alerts & Alarms
- 8 Peak FFT

This Datasheet Contains Protected Information

Efficient and reliable vibration monitoring lengthens service life and optimizes performance in all types of rotating equipment

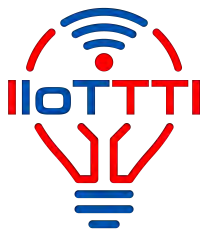
Please refer to test sheets for final parameters



Ex ia

© 2022 All rights reserved. IIOTTTI reserves the right to change this datasheet without notice

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



Limited Only By Your *Imagination*

Single Point Node 4/20 mA Input

SolutionNet™ 4.0

Model IIOT-1010

Model IIOT-1010 provides reliable and economical monitoring in areas where the cost of AC lines and other alternatives had previously made it impractical. Based on advanced, patented IIOT Technology Innovations technology, the IIOT-1010 unit provides single point monitoring. Battery powered and selftransmitting, it has a range of ¾ mile or 1.2 kilometers. Use of IIOTTTI repeaters expands the range to 7 miles or 11.3 kilometers. This unit can be powered by battery plus it also provides single point monitoring for the majority of currently installed loop powered devices. This flexibility provides a quick and inexpensive solution for bringing all 4/20 mA analog signals back to your control room or anywhere they are needed.

This
Datasheet
Contains
Protected
Information

Specifications:

Operating frequency	900 MHz (US), 868 MHz (Europe)
Channels	2
Transmission rates	5 seconds +
Operating temperature	(-40°F to +185°F) (-40°C to +85°C)
Humidity	0-95% non-condensing
Power requirement	3 VDC
Enclosure	PVC tube,
Base	316 LSS
Base Mounting/Connection	(1/2 in) (1.3 cm) MNPT
Weight (without battery)	8 ounces



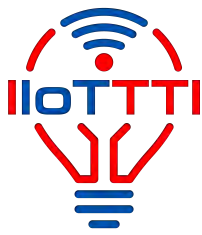
Single-point
4/20 mA
input unit
operates from
battery power

Please refer
to test sheets
for final
parameters

Ex ia

© 2022 All rights reserved. IIOTTTI reserves the right to change this datasheet without notice

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



Limited Only By Your *Imagination*

Discrete Interface Transmitter

SolutionNet™ 4.0

Model IIOT-2040

IIOTTTI Model IIOT-2040 Discrete Interface Transmitter can be configured for discrete single channel operation. This unit includes a ½ inch or 1.3 centimeters MNPT connector that will interface to any dry contact or relay instrument.

**This
Datasheet
Contains
Protected
Information**

Operating range is 1½ miles or 2.4 kilometers. The use of IIOTTTI Intelligent Repeaters expands the range to as much as 7 miles or 11.3 kilometers.

Specifications:

Operating frequency	900 MHz, 868 MHz, 2.4 GHz
Channels	1 or 2
Transmission rates	Momentary
Operating Range	(1.5 mi) (2.4 km)
Operating temperature	(-40°F to +185°F) (-40°C to +85°C)
Humidity	0-95% non-condensing
Power requirement	3 VDC
Input Options	Relays or dry contacts
Enclosure	PVC tube (2 in x 8.75 in) (5.1 cm x 22.2 cm)
Base	316 LSS
Base Mounting/Connection	(.5 in) (1.3 cm) MNPT
Weight (without battery)	(2.5 lb) (1.1 kg)
Mounting	Pipe (1 in - 1.5 in) (2.5 cm - 3.8 cm)



**Wireless
transmission
interface for
discrete
signals**

**Please refer
to test sheets
for final
parameters**

Ex ia

© 2022 All rights reserved. IIOTTTI reserves the right to change this datasheet without notice

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



Limited Only By Your *Imagination*

Gas Detection

SolutioNet™ 4.0

Model IIOT-2080

IIOTTTI employs any number of methods utilizing our unique devices for monitoring, transmitting and integrating gas emissions data across your facility, to offsite destinations and/or around the globe. IIOTTTI patented gas and vapor sensors not only test for hydrocarbons but also test for a large class of other commonly used and potentially dangerous industrial compounds (VOCs, H₂S, O₂, etc.). The versatility of the gas and vapor sensor assures a “protective umbrella” that quickly and accurately discovers the presence of fugitive emissions and quickly notifies authorities of the location and type of gas. Improving environmental safety for all employees is the rationale behind this device. IIOTTTI has the total wireless solution. The performance, reliability, and service life of all their devices, operating in some of the most demanding and congested environments, are proven unequalled. IIOTTTI gas and vapor sensors are available in a powerful self-contained and self-powered unit. Perfect for operating in areas where AC power is unavailable, IIOTTTI single point gas and vapor monitoring systems provide essential and timely information when and wherever needed.

This model has been tested and approved for countless environments both atmospheric and submersible offering operating ranges as defined by specific

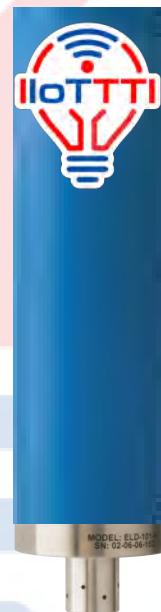
application (LEL, ppm, ppb). Gases monitored include but are not limited to VOCs, Nh₃, CO, CO₂, Cl₂, H₂S, O₂, and SO₂.

The IIOTTTI gas emission monitoring system operates independently or grouped with our patented and sophisticated SolutioNet™ 101 data acquisition technology. The Model IIOT-2080 is designed to instantly transmit data to the control room for alarming at predefined levels and/or to activate an alarm. It has a self-transmitting range of 3/4 mile or 1.2 kilometers. On longer distances, the use of IIOTTTI Intelligent Repeaters can expand the effective range to 7 miles or 11.3 kilometers plus.

This Datasheet Contains Protected Information

IIOTTTI hydrocarbon sensors have a multitude of uses in monitoring VOC emissions in pumps, valves, flanges and tanks.

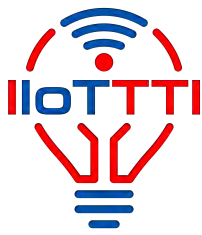
Please refer to test sheets for final parameters



Ex ia

© 2022 All rights reserved. IIOTTTI reserves the right to change this datasheet without notice

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



Limited Only By Your *Imagination*

Temperature Monitoring

SolutioNet™ 4.0

Model IIOT-2000 / IIOT-2070

IIOTTTI employs any number of methods utilizing our unique devices to monitor temperature data and transmit it wirelessly across the facility, and beyond. IIOTTTI resistive temperature (RTD) or thermocouple (Types J, K, etc.) designs provide reliable, accurate and economical temperature monitoring and data transmission from equipment in areas that were cost prohibitive or unrealistic for hard wired solutions. IIOTTTI offers the total wireless solution for capturing, transmitting and integrating temperature data economically throughout the plant, across the continent, or around the globe. The performance, reliability, integrity and service life of IIOTTTI devices in the some of the most rigorous and congested environments has been proven to be un-equaled.

IIOTTTI single point temperature monitoring devices provide reliable, accurate and economical temperature data acquisition and transmission in a single self-contained, self-powered unit. In areas where AC power is limited or unavailable, the use of IIOTTTI single point temperature monitoring and transmitting devices allows economical acquisition and timely utilization of important physical property data. These devices are available in thermocouple (Types J, K, etc.) or RTD design with operating ranges as defined by the specific application

and have a self transmitting range of $\frac{3}{4}$ mile or 1.2 kilometers. For longer transmission distance requirements, the use of IIOTTTI Intelligent Repeaters expands the effective range to 7 miles or 11.3 kilometers. For off-site transmission of critical data, the use of other methods can be incorporated into the data integration system.

Typical applications for IIOTTTI temperature monitoring devices include pipelines, tanks or vessels, equipment surfaces or internals, storage areas or buildings, process areas, control panels, etc.

This Datasheet Contains Protected Information

Advanced IIOTTTI temperature sensor technology means reliable and economical surface and thermowell readings

Please refer to test sheets for final parameters



Thermocouple Device



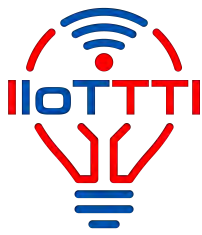
RTD Device

Ex ia

© 2022 All rights reserved. IIOTTTI reserves the right to change this datasheet without notice

www.iiottti.com
(832) 458-8107

24130 State Highway 249 Suite 150
Tomball, TX 77375



Limited Only By Your *Imagination*

Multiport Transmitter

SolutioNet™ 4.0

Model IIOT-3000 series

IIOTTTI employs various ways to collect data depending on the customer needs. In some applications a single point, battery powered device is not sufficient to collect information, whether due to space limitations, need for simultaneous collection, temperature limitations or economics of reducing the number of battery powered devices in a congested area.

The IIOT-3000 series is a 5 port battery powered, Class I Div I rated transmitter capable of bringing in up to 7 channels of information. This can be a multitude of configurations and combinations of vibration, temperature, pressure, discrete or 4-20mA inputs. Each sensor is connected via armored cable to the IIOT-3000 series device up to 20ft. This allows users to bring the transmitter into a more ideal location while still using a battery powered device.

Specifications on the various cables available for the IIOT-3000 series can be found on a separate specification sheet.

Each device has a self-transmitting range of $\frac{3}{4}$ mile or 1.2km. For longer transmission distance requirements, the use of the IIOTTTI-5000 series Intelligent Repeaters increases the effective communication range to 7 miles or 11.3km. For off-site transmission of critical data, use of the SolutioNet™ 4.0 system can be included for ultimate integrated data connectivity.

Typical applications for IIOTTTI pressure monitoring devices include pipelines, pump suction and discharge, vessels, reactors, stack and tanks, etc.

**This
Datasheet
Contains
Protected
Information**



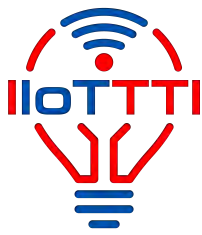
**Please refer
to test sheets
for final
parameters**

Ex ia

© 2022 All rights reserved. IIOTTTI reserves the right to change this datasheet without notice

www.iiottti.com
(832) 458-8107

24130 State Highway 249 Suite 150
Tomball, TX 77375



Limited Only By Your *Imagination*

Remote Transmitting Unit (RTU)

SolutioNet™ 4.0

Model IIOT-4000 Series

Capable of processing analog or digital protocols, this versatile instrument interfaces with most 4/20 mA or discrete signal sensors which may exist in the current environment or accept a multitude of IIOTTTI provided sensors such as accelerometers, pressure transducers, RTDs, thermocouple, and more. The Model IIOT-4000 Series base unit offers up to eight channels with independent programming for each channel and is expandable to up to 56 channels. It operates on AC or solar power and has an instantaneous battery backup system. Model IIOT-4000 Series devices also supply the 24 VDC loop power if required by the customer's installed field instruments.

Option: An additional discrete signal can be added for high level alarm. The approximate transmitting range is 3/4 mile or 1/2 kilometers. For greater distances, IIOTTTI Intelligent Repeaters expand the range to 7 miles or 11.3 kilometers. The IIOTTTI SolutioNet™ 4.0 integrated data connectivity system is ideal for collection and transmission of data throughout a region or around the globe.

Specifications:

Operating frequency	900 MHz (US), 868 MHz (Europe)
Channels	2,4,6,8 (Option: 1 discrete high level alarm)
Transmission rates	Programmable
Operating range	(.75 mi) (1.2 km)
Operating temperature	(-40°F to +185°F) (-40°C to +85°C)
Channel output power	16 to 24 VDC
Channel output time	Programmable
Humidity	0-95% non-condensing
Input options	4/20 mA or discrete by channel
Frequency Range (Vib)	2 Hz - 10kHz
Power requirement	12 to 24 VDC
Certification	CSA Class 1, Div. 2: A, B, C and D
Enclosure	Fiberglass NEMA 4X (4 in x 14 in x 16 in)(10.2 cm x 35.6 cm x 40.6 cm)
Weight (without battery)	(23 lb) (10.4 kg)
Mounting	Pipe (1.5 in) (3.8 cm), Wallmount, Unistrut

This Datasheet Contains Protected Information

Developed to interface with most 4/20 mA or discrete signals

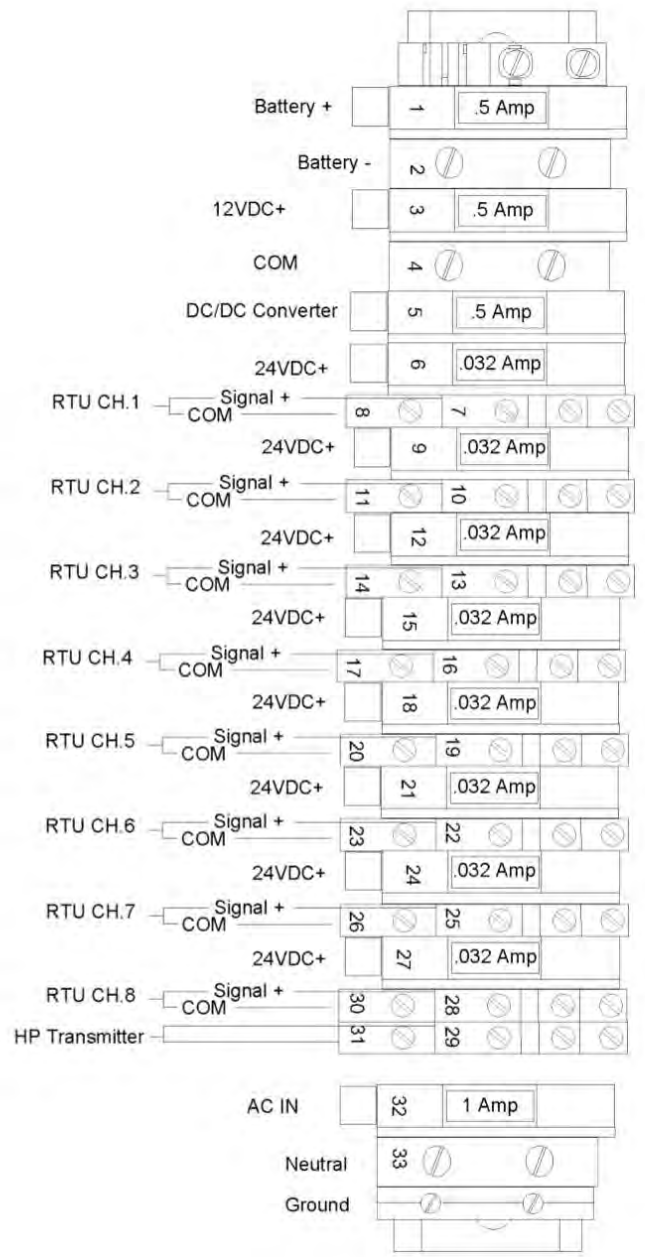
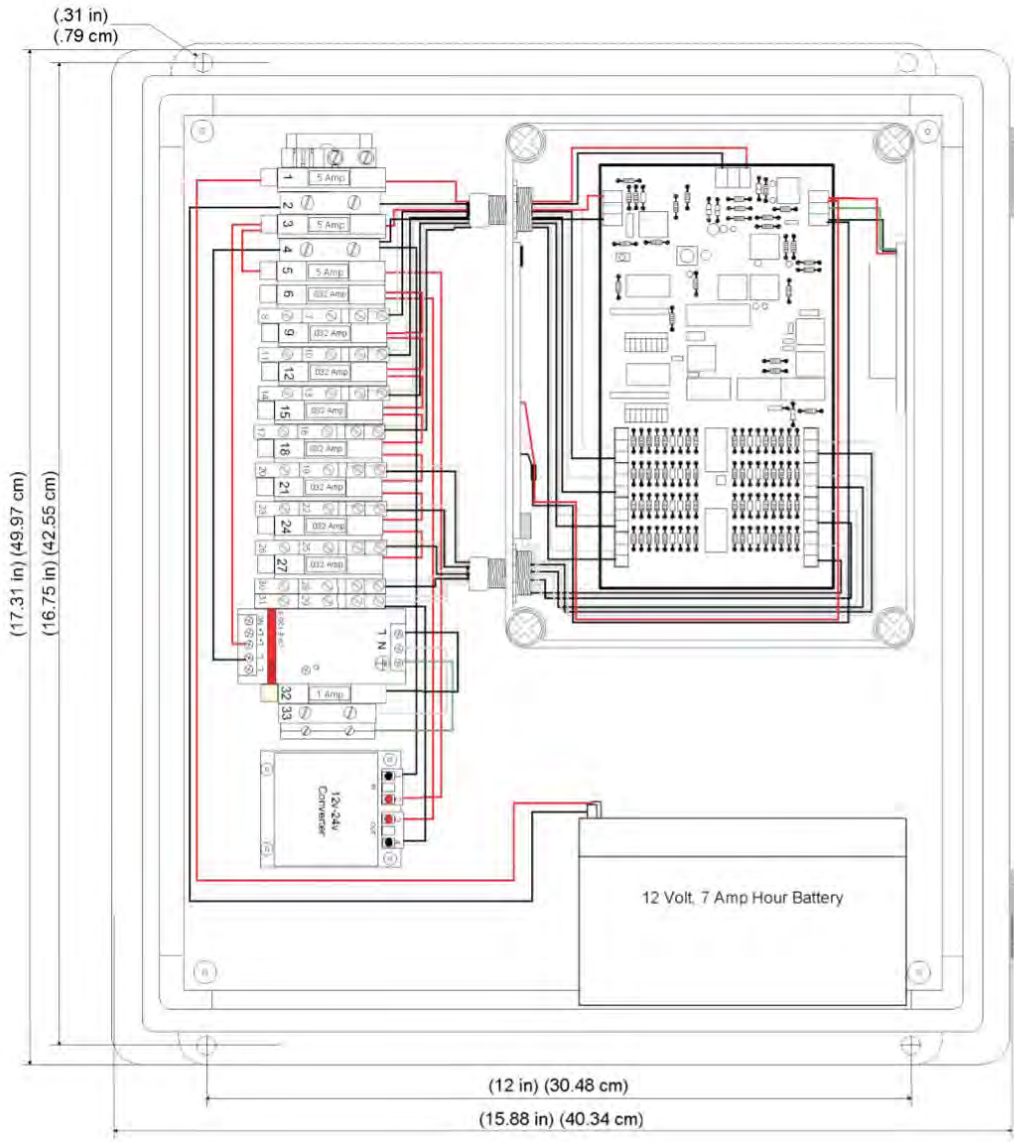


Please refer to test sheets for final parameters

© 2022 All rights reserved. IIOTTTI reserves the right to change this datasheet without notice

www.iiottti.com
(832) 458-8107

24130 State Highway 249 Suite 150
Tomball, TX 77375




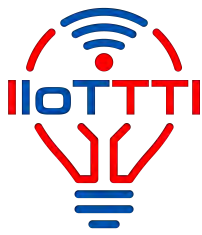
REV.	DESCRIPTION	BY	DATE	APVD	CKD:	
	INITIAL RELEASE				APVD:	
					SHEET	1 OF 1
					DRAWING NO:	4008-GA

IIOT-4000 Series Remote Transmitting Unit (RTU)
Base Build: 8ch - expandable up to 56ch

IIOT Technology Innovations LLC
 24130 State Highway 249, Suite 150, Tomball, Texas 77375
 Phone: (281) 734-3322

NOTICE: THE INFORMATION CONTAINED IN THIS DRAWING IS PRIVATE AND CONFIDENTIAL AND IS INTENDED ONLY FOR THE USE OF THE RECIPIENT. IF THE RECIPIENT IS NOT THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPY OF THIS COMMUNICATION IS STRICTLY PROHIBITED.





Limited Only By Your *Imagination*

Intelligent Repeater

SolutioNet™ 4.0

Model IIOT-5000 Series

IIoT Technology Innovations developed this solar powered/battery backup repeater for signal enhancement. It attains an approximate range of 1½ miles or 2.4 km). Using a multiple Intelligent Repeater network, effective range is increased to 7 miles or 11.3 km). For additional transmission needs, the IIOTTTI SolutioNet™ 4.0 communication system incorporates various transmission technologies such as traditional wired resources, local area networks, the Internet, modems, fiber optics, satellites, etc.

This
Datasheet
Contains
Protected
Information

Specifications:

Operating frequency	900 MHz, 868 MHz
Repeater function	(1.5 mi) (2.4 km)
Operating temperature	(-40°F to +185°F) (-40°C to +85°C)
Humidity	0-95% non-condensing
Power requirement	110/220 VAC or solar power with battery backup
Consumption	60mA continuous
Enclosure	Fiberglass NEMA 4X, (4 in x 14 in x 16 in) (10.2 cm x 35.6 cm x 40.6 cm)
Weight (without battery)	(23 lb) (10.4 kg)
Mounting	Pipe, (1.5 in) (3.8 cm)

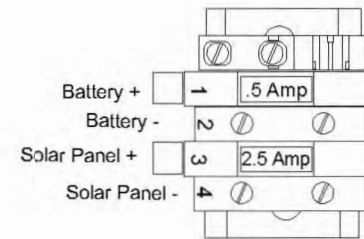
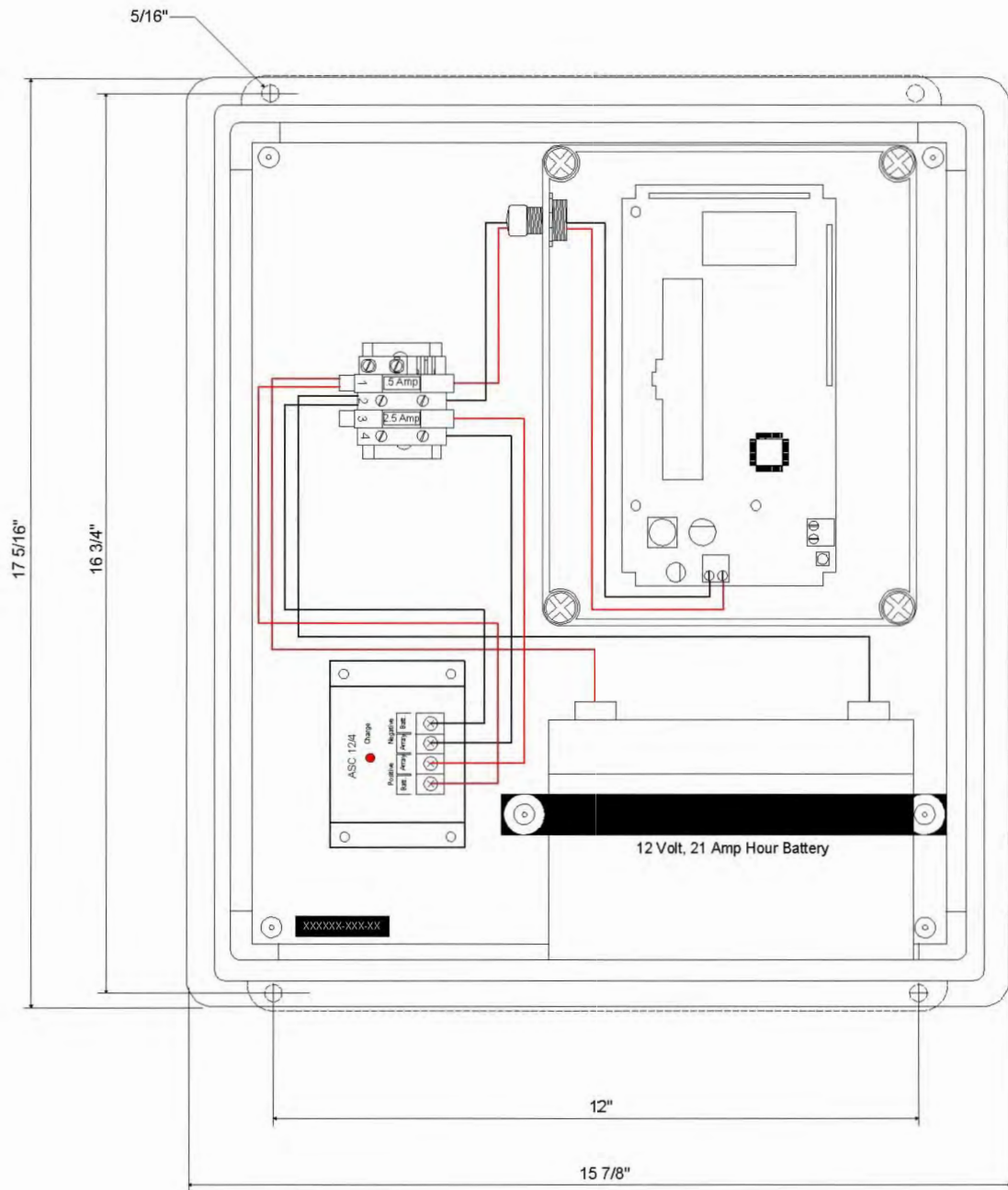
IIOTTTI
Wireless
Intelligent
Repeaters
enhance
signal
strength




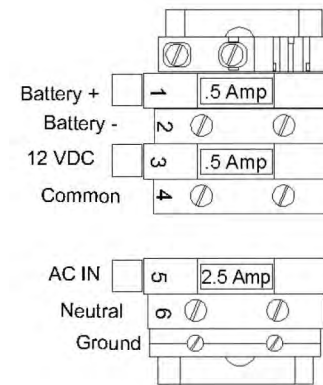
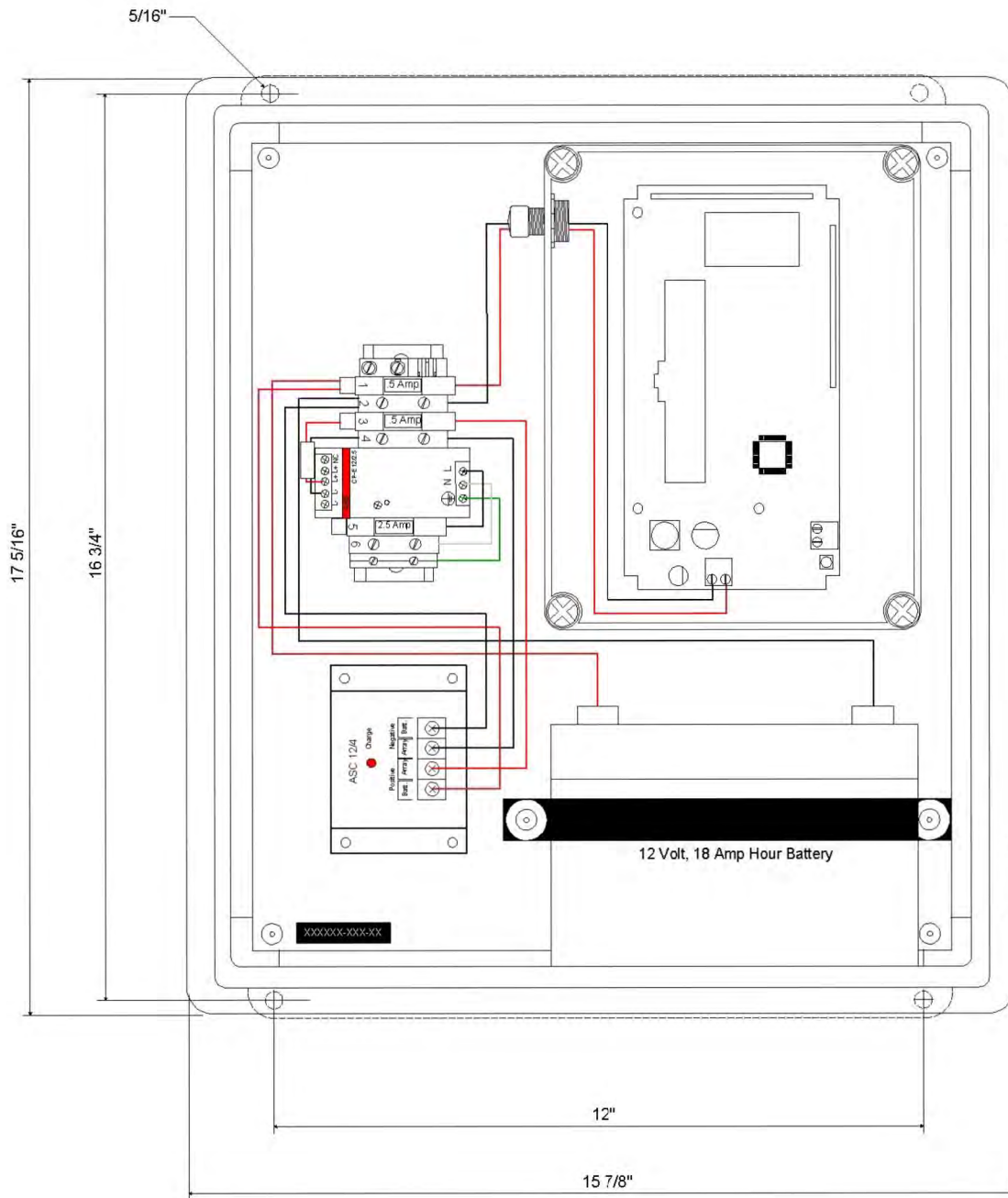
Please refer
to test sheets
for final
parameters


© 2022 All rights reserved. IIOTTTI reserves the right to change this datasheet without notice

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



				CK'D:		IIOT-5000 SOLAR POWERED REPEATER	<small> -NOTICE- THE INFORMATION CONTAINED IN THE DRAWING IS PRIVILEGED AND CONFIDENTIAL, AND IS INTENDED ONLY FOR THE USE OF THE RECIPIENT. IF THE RECIPIENT IS NOT THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPY OF THIS COMMUNICATION IS STRICTLY PROHIBITED. </small>	
				APVD:				
				SHEET 1 OF 1		General Arrangement and Wiring		
				DRAWING NO 5000-WGA		Part Number: IIOT-5000		
REV.	DESCRIPTION	BY	DATE	APVD			IIoT Technology Innovations, LLC. 24130 State Highway 249, Suite 150, Tomball, Texas 77375 Phone: (281) 734-3322	
-	INITIAL RELEASE		10/06/21					



				CKD:			IIOT-5100 AC POWERED REPEATER	<small> -NOTICE- THE INFORMATION CONTAINED IN THE DRAWING IS PRIVATE AND CONFIDENTIAL, AND IS INTENDED ONLY FOR THE USE OF THE RECIPIENT. IF THE RECIPIENT IS NOT THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPY OF THIS COMMUNICATION IS STRICTLY PROHIBITED. </small>	
				APVD:					
				SHEET 1 OF 1		General Arrangement and Wiring			
				DRAWING NO: 5100-WGA		Part Number: IIOT-5100		IIoT Technology Innovations, LLC. 24130 State Highway 249, Suite 150, Tomball, Texas 77375 Phone: (281) 734-3322	
REV.	DESCRIPTION	BY	DATE	APVD					
-	INITIAL RELEASE		10/06/21						



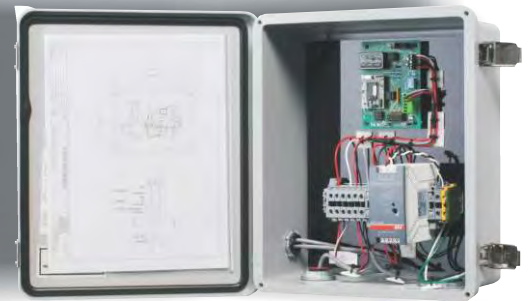
Limited Only By Your *Imagination*

Serial Modbus Receiver Unit

SolutioNet™ 4.0

Model IIoT-6100 Series

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.



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

Specifications

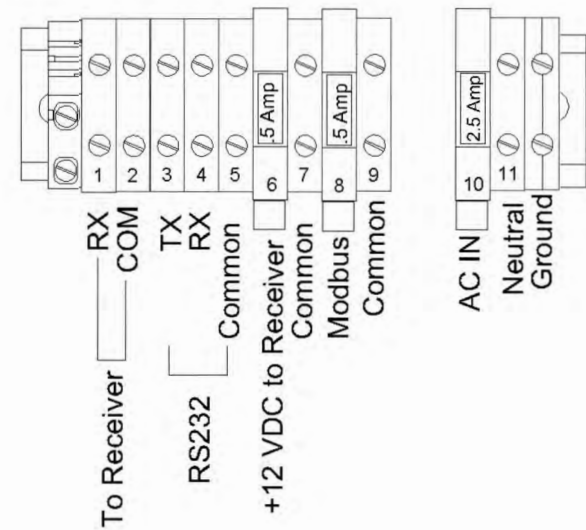
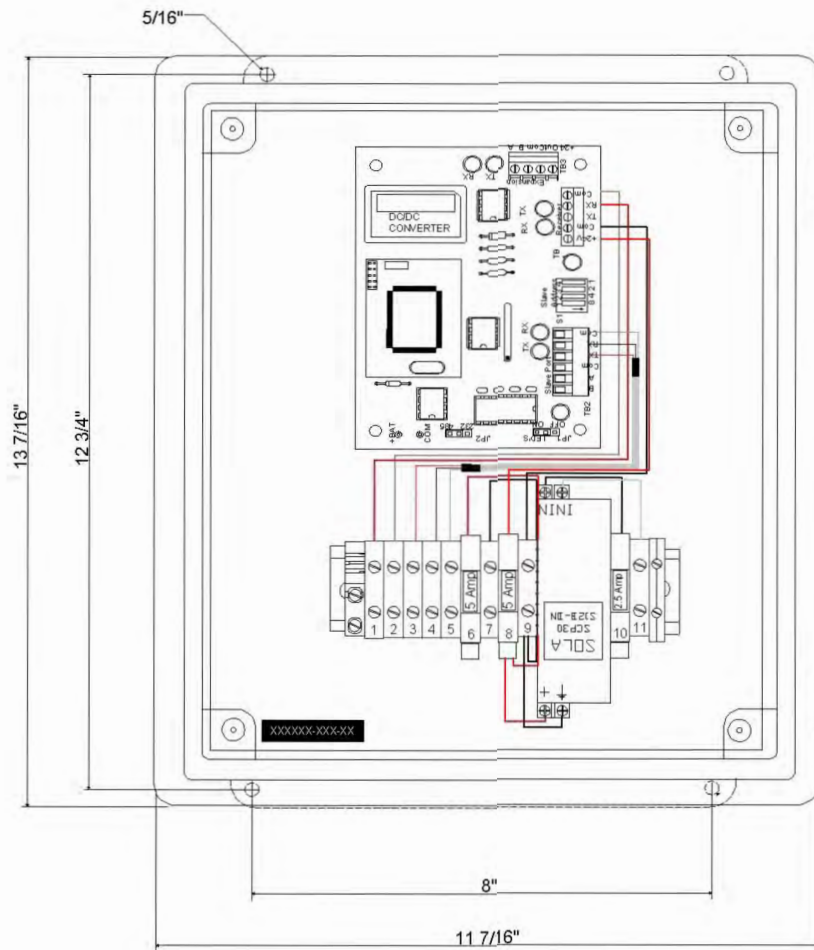
Operating frequency	900 MHz (US), 868 MHz (Europe)
User interface	RS-232 or RS-485
Baud rate	9800-19200 baud
Comm Parameters	Configurable
Max Polling rate	Less than 2 seconds
Diagnostic port	Laptop or PC interface
Operating temperature	(-40°F to +185°F) (-40°C to +85°C)
Humidity	5-95% non-condensing
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


This Datasheet Contains Protected Information

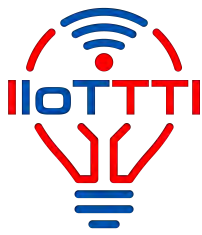
Please refer to test sheets for final parameters

© 2022 All rights reserved. IIOTTTI reserves the right to change this datasheet without notice

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	<small>NOTICE:</small> THE INFORMATION CONTAINED IN THE DRAWING IS PRELIMINARY AND CONFIDENTIAL AND IS INTENDED ONLY FOR THE USE OF THE RECIPIENT. IF THE RECIPIENT IS NOT THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPY OF THIS COMMUNICATION IS STRICTLY PROHIBITED.	
				APVD:		Wiring and General Arrangement			
						SHEET 1 OF 1			
						DRAWING NO: 6101-WGA	Part Number: IIOT-6101	For use with IIOT-6000	
REV.	DESCRIPTION	BY	DATE	APVD					IIoT Technology Innovations, LLC. 24130 State Highway 249, Suite 150, Tomball, Texas 77375 Phone: (281) 734-3322



Limited Only By Your *Imagination*

Data Interface Processor Unit

SolutioNet™ 4.0

Model IIOT-4030-AO/DO

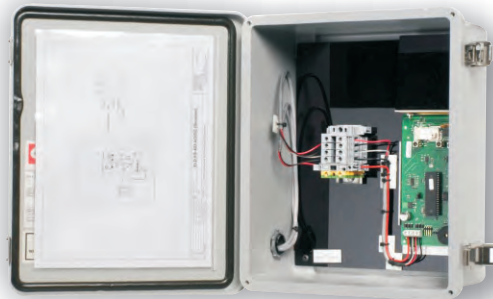
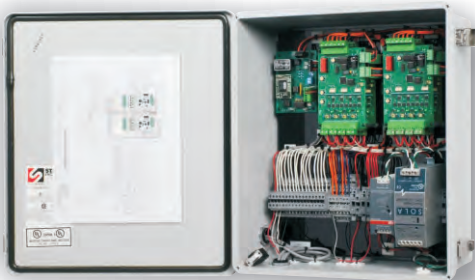
Model IIOT-4030-AO/DO is a communications processor unit for processing digital and/or analog inputs. The IIOTTTI IIOT-4030-AO/DO system is designed to provide a data interface between wireless transmitters and a customer's PLC or direct data polling systems configured to accept 4/20 mA signals. All communication to the data interface processor unit is by wireless transmitters while communication from the unit to the PLC is by direct digital and analog data lines. The logic, control and communication functions of the IIOT-4030-AO/DO are provided by a micro controller computer. Use of system watchdog timers and auto-run features integrated into the hardware, plus a multitasking operating system allow the unit to automatically continue operation following unplanned system interruptions due to power failure.

**This
Datasheet
Contains
Protected
Information**

Specifications

Operating frequency	900 MHz, 868 MHz, 2.4 GHz
User interface	Analog and/or digital data lines
Max analog data	8 lines 4/20mA or 0-10VDC (Other configurations available)
Max digital data	32 TTL - level lines (Other configurations available)
Diagnostic port	Laptop or PC interface
Operating temperature	(-40°F to +185°F) (-40°C to +85°C)
Humidity	0-95% non-condensing
Operating power	9-16 VDC
Supply voltage	110/220 VAC
Analog data	4/20 mA
Digital data	D/ls
Enclosure	Fiberglass NEMA 4X,(4 in x 14 in x 16 in) (10.2 cm x 35.6 cm x 40.6 cm)
Weight (without battery)	(23 lb) (10.4 kg)
Mounting	Pipe, (1.5 in) (3.8 cm)

**Communications
processor unit
with integrated
receiver for
processing
digital and/or
analog inputs
from wireless
messages**

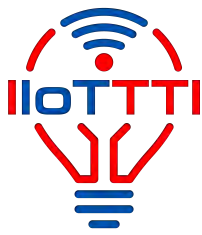


**Please refer
to test sheets
for final
parameters**

© 2022 All rights reserved. IIOTTTI reserves the right to change this datasheet without notice

www.iioTTTI.com
(832) 458-8107

24130 State Highway 249 Suite 150
Tomball, TX 77375



Limited Only By Your *Imagination*

Serial Interface Unit

SolutioNet™ 4.0

Model IIOT-4030-Serial-Modbus RTU, ASCII, and other protocols

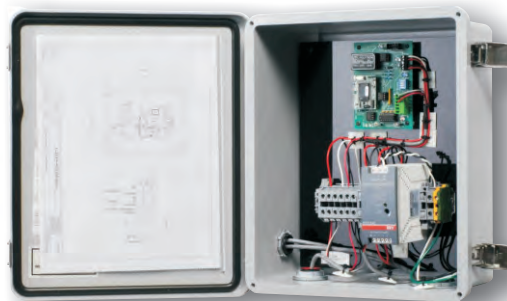
Model IIOT-4030-Serial is a communications processor with an integrated IIOTTTI receiver. It provides a communication and data interface between IIOTTTI reporting systems and customer DCS systems via Modbus (ASCII or RTU) responses to customer polling commands for status and/or measurement data. All communication to the IIOT-4030-Serial is by wireless transmitters; communication to/from the IIOT-4030-Serial unit to the customer's DCS is by serial RS-232 or RS-485 connections for the Modbus commands/responses. Logic, control and communication functions are provided by a micro controller computer. Use of system watchdog timers and auto run features integrated into the hardware and multi-tasking operating system allow the IIOT-4030-Serial Modbus to automatically continue operations following system interruption due to power outages.

**This
Datasheet
Contains
Protected
Information**

Specifications

Operating frequency	900 MHz, 868 MHz, 2.4 GHz
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 to 16 VDC
Supply voltage	110 VAC
Enclosure	Fiberglass NEMA 4X, (4 in x 14 in x 16 in) (10.2 cm x 35.6 cm x 40.6 cm)
Weight (without battery)	(23 lb) (10.4 kg)
Mounting	Pipe, (1.5 in) (3.8 cm)

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



**Please refer
to test sheets
for final
parameters**

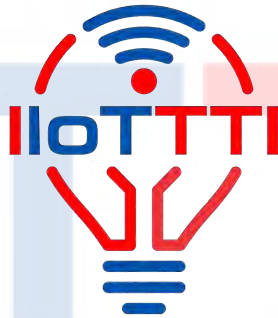
© 2022 All rights reserved. IIOTTTI reserves the right to change this datasheet without notice

www.iiotsti.com
(832) 458-8107

24130 State Highway 249 Suite 150
Tomball, TX 77375

IIoT Technology Innovations LLC

SolutioNet 4.0



Limited Only By Your *Imagination*

832-458-8107 - Phone

24130 State Highway 249, Ste 150
Tomball, TX 77375

www.iiottti.com
info@iiottti.com