Remote Transmitting Unit (RTU)
Model IIoT-4X00

SolutioNet™ 4.0

4G LTE 5G LoRa Bluetooth WirelessHART

Capable of processing analog or digital protocols, this versatile instrument interlaces 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-4X00 Series base unit offers up to eight channels with independent programming for each channel and is expandable to up to 56channels. It operates on AG or solar power and has an instantaneous battery backup system. Model IIoT-4X00 Series devices also supply the 24 VDC loop power it 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 ½ 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.
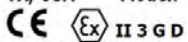
This Datasheet Contains Protected Information

Specifications:

Operating frequency	900 MHz (US), 868 MHz (Europe), W-HART, LoRa 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 × 40.6 cm)(23 lb) (10.4
Weight (without battery)	kg)
Mounting	Pipe (1.5 in) (3.8 cm), Wallmount, Unistrut

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

Please refer to the test sheets for final parameters

IIoT Technology Innovations, LLC
TX, USA   Model: IIoT-4XXX RTU

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: 115/230 Vac, 1.3/0.7A, 50-60 Hz
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 BATTERY OR EQUIPMENT UNLESS
THE AREA IS KNOWN TO BE NON-HAZARDOUS.
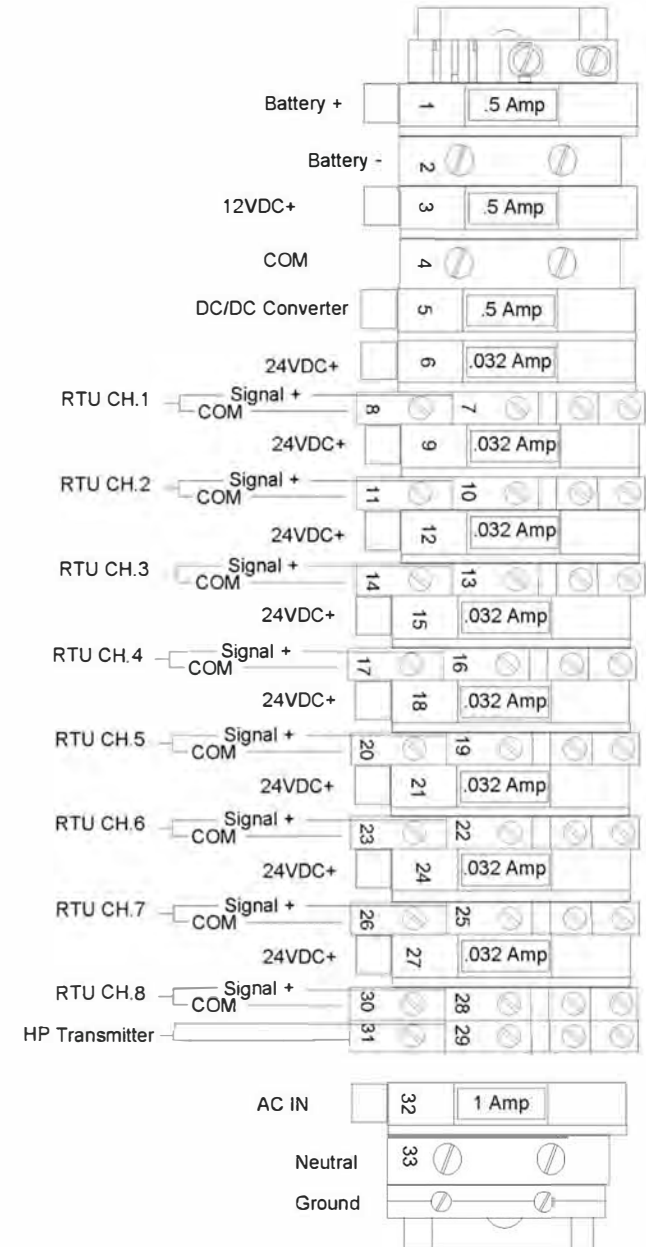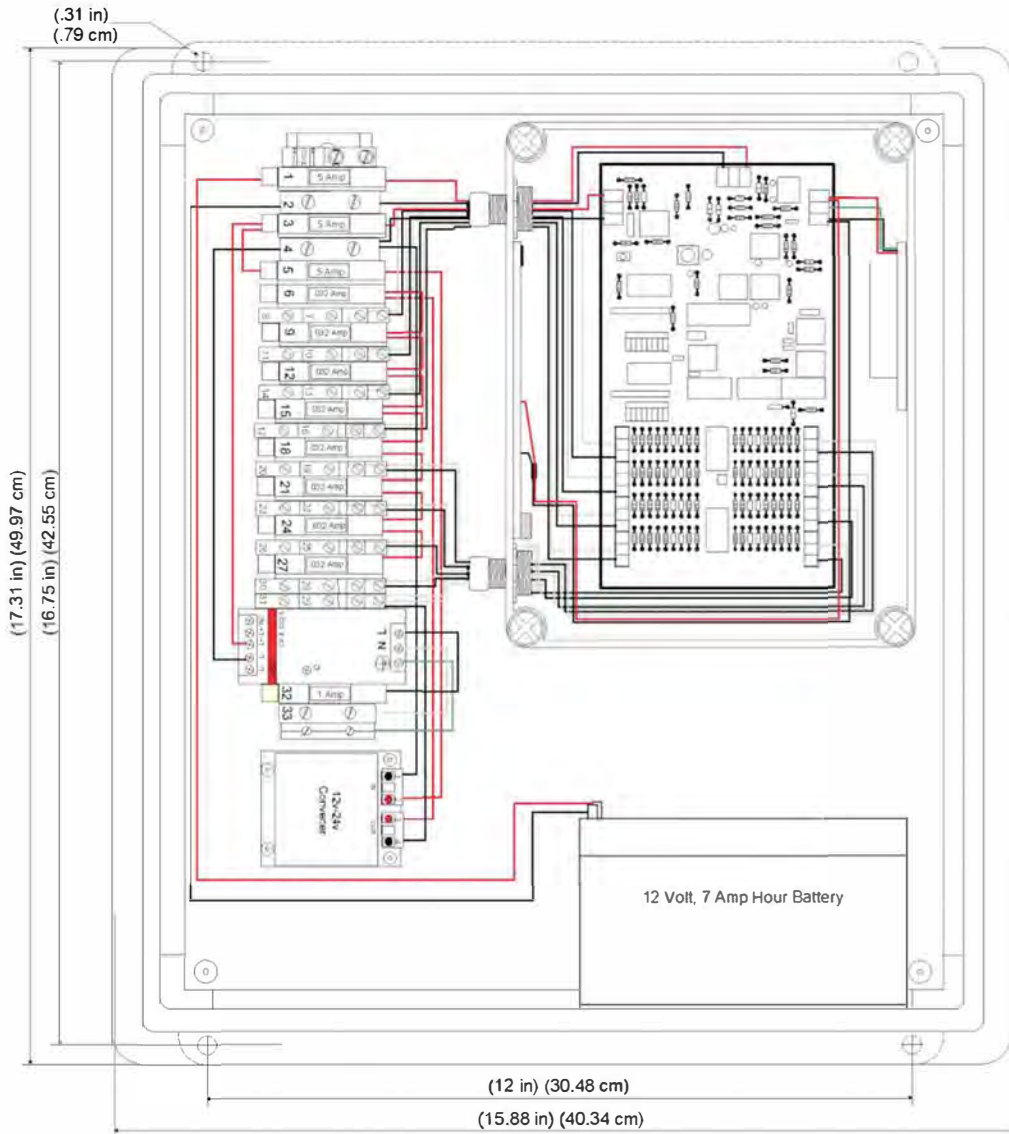USE ONLY POWER SONIC BATTERY PART NUMBER PS-1270
OR PS-12180.

703-4003-01^

(.31 in)
(.79 cm)

(17.31 in) (49.97 cm)
(16.75 in) (42.55 cm)

5 Amp
5 Amp
5 Amp
.032 Amp
.032 Amp
.032 Amp
.032 Amp
.032 Amp
.032 Amp
.032 Amp
.032 Amp

1 Amp

12-24v Converter

12 Volt, 7 Amp Hour Battery

(12 in) (30.48 cm)
(15.88 in) (40.34 cm)

Terminal	Label	Rating
Battery +	1	.5 Amp
Battery -	2	
12VDC+	3	.5 Amp
COM	4	
DC/DC Converter	5	.5 Amp
24VDC+	6	.032 Amp
RTU CH.1 Signal + / COM	8 / 7	
24VDC+	9	.032 Amp
RTU CH.2 Signal + / COM	11 / 10	
24VDC+	12	.032 Amp
RTU CH.3 Signal + / COM	14 / 13	
24VDC+	15	.032 Amp
RTU CH.4 Signal + / COM	17 / 16	
24VDC+	18	.032 Amp
RTU CH.5 Signal + / COM	20 / 19	
24VDC+	21	.032 Amp
RTU CH.6 Signal + / COM	23 / 22	
24VDC+	24	.032 Amp
RTU CH.7 Signal + / COM	26 / 25	
24VDC+	27	.032 Amp
RTU CH.8 Signal + / COM	30 / 28	
HP Transmitter	31 / 29	
AC IN	32	1 Amp
Neutral	33	
Ground		

CK'D:
APVD:
SHEET 1 OF 1

IIOT-4000 Series Remote Transmitting Unit (RTU)

Base Build: 8ch - expandable up to 56ch

REV.	DESCRIPTION	BY	DATE	APVD
-	INITIAL RELEASE			

DRAWING NO:
4008-GA