WISER LC100-PP Wireless Data Sensor





WISER LC100-PP Wireless Data Sensor

The WISER LC100-PP telemetry system was designed for integration into artificial lift load cell applications. It is capable of achieving an ATEX Zone 0 Intrinsically Safe certification. In addition to the specifications this system also includes the capability to add the following:

- Second Analog output for voltage or current output
- Ambient temperature
- Battery voltage monitoring

Digital USB output

• Over the air (OTA) updating and user configuration

3 Axis accelerometer

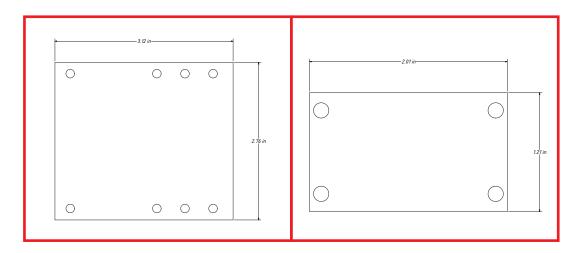
• DC power isolation of the base unit

WISER LC100-PP PRE-PRODUCTION ELECTRONICS SPECIFICATIONS

Pre-Production System Specifications			
Radio Frequency	GHz	2.4	
Radio License		World wide license free	
Radio Channels (Dial Selectable)		16	
Pre-Production Sensor Remote Unit Specifications			
Data Rate ¹	Readings/second	100 continuous	
Transmit Power	dBm	13.4	
Sensor Excitation	Volts	2.048	
Data Resolution	bits	14	
Measurement Accuracy	% FS	±0.1	
Fault Output	% FS	200	
Communication Recovery After Loss Transmission	ms	1	
Telemetry Range	meters	1,000	
Battery Life ²	months	13	
Battery Type		Lithium D cell, 3.6VDC, 19Ah	
Sensor Sleep Mode	Sensor enters sleep mode when base unit is power down		
Operating Temperature	0C (0F)	-40 to 80 (-40 to 175)	
Storage Temperature	0C (0F)	-55 to 85 (-67 to 185)	
Size	in [mm]	Reference drawing in the brochure on page 3	
Hazardous Certification	Sensor remote unit	Capable of achieving Intrinsic Safety	
Wireless Certification		Capable of achieving FCC, IC, EU/ CE	



WIRELESS WITH AN EDGE



WISER LC100-PP PRE-PRODUCTION ELECTRONICS SPECIFICATIONS

Pre-Production Base Unit Specifications			
VDC	11.5-25		
mA	500		
dBm	20		
ms	50		
LED	Steady Blue = good communication		
	Red Flashes = retries		
	Steady Red = battery replacement required		
VDC	5.000±0.05		
mV/Vexc	2±0.02		
Hz(-3dB)	100		
Common Mode VDC	0		
Seconds Max	8		
0C (0F)	-40 to 80 (-40 to 175)		
0C (0F)	-55 to 85 (-67 to 185)		
LED	Steady red for VBatt<3.1VDC		
	DIN Rail		
in [mm]	Reference drawing in the brochure on page 3		
Additional Specifications for Pre-Production Electronics			
Sensor remote unit	Capable of achieving Intrinsic Safety		
	Capable of achieving FCC, IC, EU/ CE		
	VDCmAdBmmsLEDVDCWV/VexcHz(-3dB)Common Mode VDCSeconds MaxOC (0F)OC (0F)LEDin [mm]ction Electronics		

1 Can be remotely controlled from 1Hz to 4kHz.

2 Assume 11Ah battery utilization (continue use in worst case environment), and 100Hz data rate.

3 Battery replacement LED signal at Vbatt 3.1VDC, replace battery within 2 weeks of signal.

4 Typical excitation voltage 5VDC; typical common mode output voltage 2.5VDC

5 Not including DIN rail mount.



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