

Group Four Transducer frees you from the web of wires by introducing wireless digitizer card WLDU. It allows to transmit amplified load signals to from LDU transmitter to LDU receiver wirelessly.



### FEATURES

- Wireless LDU Transmitter
- Wireless LDU receiver
- Transmission range 500 meters
- Network or point to point wireless interfacing
- Graphic presentation, analysis and set up PC program, DOP4 software

### APPLICATIONS

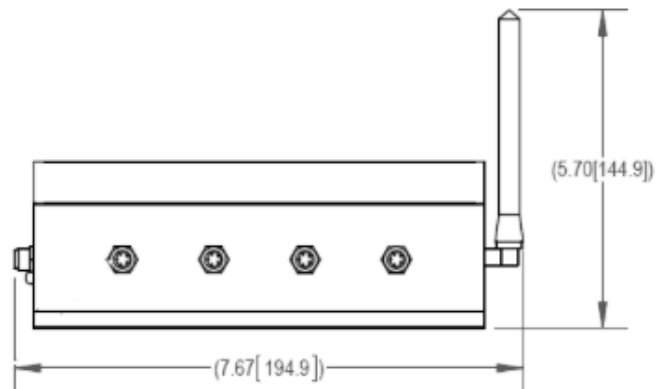
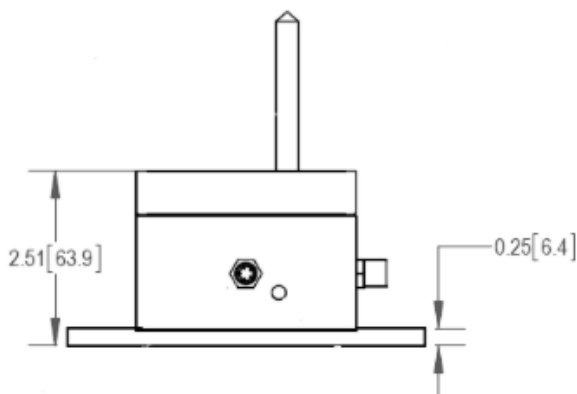
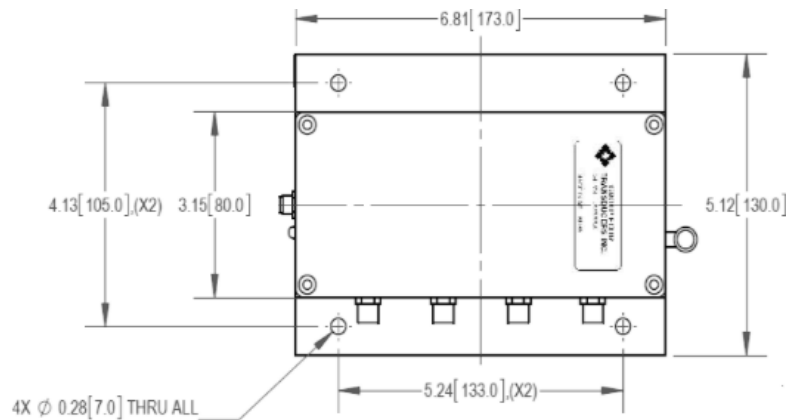
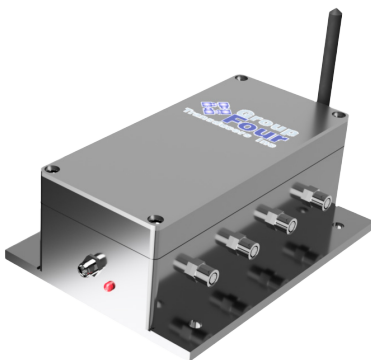
- Analog load cell systems
- Calibration equipment
- Test machines

### OPTIONS

- Transmission range 1km
- Transmission range 2km

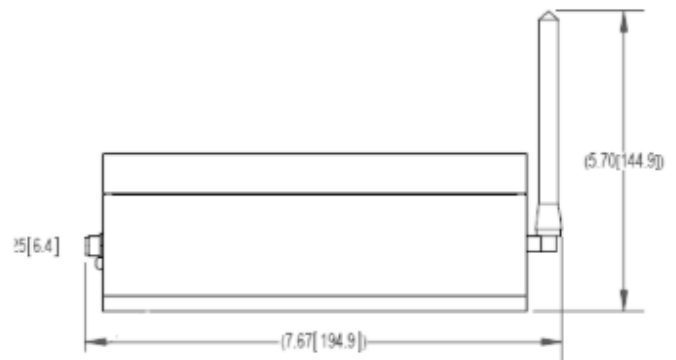
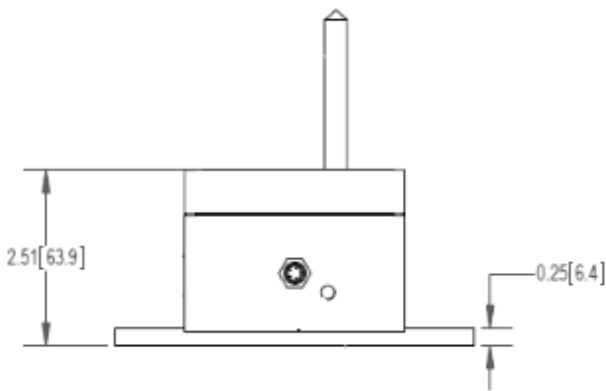
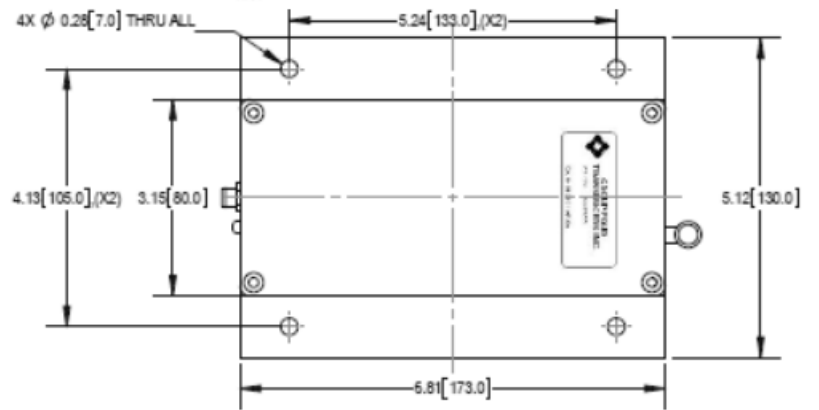
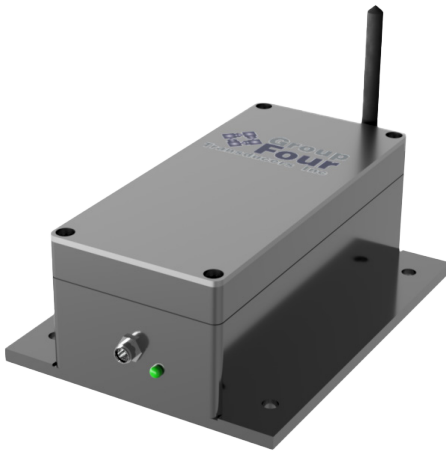
### OUTLINE DIMENSIONS

Wireless Transmitter



# OUTLINE DIMENSIONS

Wireless Receiver

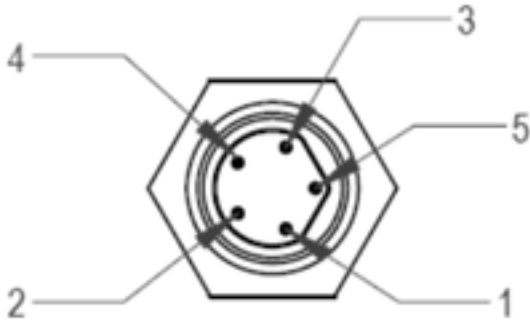


## SPECIFICATIONS

Model	WLDU
<b>INPUT AND A/D</b>	
Linearity	<0.002% of full scale
Load cell excitation voltage	5 VDC polarity shifting at 172HZ
Load cell drive capability	RLC 250-2000 ohm
Load cell wiring system	6 wires inclusive sense
Load cell input range	±3.2 mV/V equivalent to ±16 mVdc
Load cell input resolution	<20nV/increment
A/D performance	172 updates/second;1000000 incr resolution
Analog LP fliter performance	3 Hz; 20 db/decade
Digital LP fliter performance	3-0.2 Hz; 40db/decade, selectable in 6 steps
Averaging period (display output)	5 updates/second, variable rolling averaging
<b>GENERAL I/O's</b>	
Hardware interface	RS485, 32 nodes or RS422 full duplex
Data transmission rates	9.6; 19.2, 38.4; 57.6; 115.2 kb
Data transmission protocol	Get results or auto transmit
Output data rate	21-172 updates/second
Logic inputs	-
Logic outputs	-
Power supply	12-24vdc max 100mA (12-14 Vdc if R LC<200ohm)
<b>INFLUENCES</b>	
Temperature effect on zero	Typical 1ppm/°K, Max 2ppm/ °K
Temperature effect on span	Typical 1ppm/°K, Max 2ppm/ °K
Temperature range operating	-10°C/ +40°C; Storage -20°C/+60°C
Long term stability of zero	Typical 5ppm/year at room temperature
Relative humidity	0-95% non condensing
EMI	10 V/m (1-2000 MHz)
General I/O protection, all pins	Reversed polarity, excess voltage and surge
Vibration	2.5G operational; 5G non-operational
Protection, environment	IP40
<b>DIMENSIONS</b>	
Height/length/width	H6mm excl. pins; L81.3mm; W 30.5mm
Weight	27g (1oz)
I/O pins	2x5 pins, 2.54mm pitch; 1x10 pins, 2.54mm pitch
<b>STANDARDS</b>	
CE EMC directive	89/336 EN 61326/A1 Table A.1 passed
Certificate of approval	Cert. no. DK0199-R76-03.01 (EN45.501)
Certified accuracy	Class III: 10000e; 0,1 uV/VSI
<b>WIRELESS SPECIFICATIONS</b>	
Transmission Distance	500 meters (ideal test connection)
Carrier Frequencies	433, 315, 868 & 915 MHz

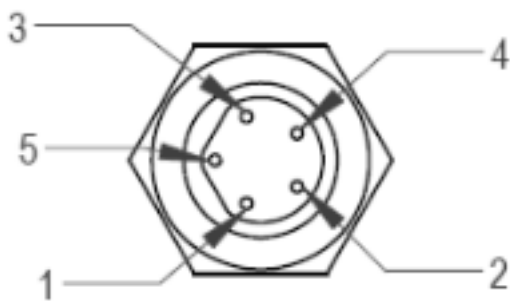
## PIN CONFIGURATION

Wireless LDU Transmitter  
M8 5pin male connector



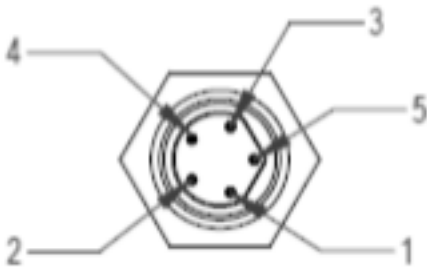
PIN NO	RS485
1	GND
<b>2</b>	DATA+(A)
3	N/C
4	DATA-(B)
5	PWR+

M8 5pin female connector



PIN NO	CONNECTION
1	EX+
<b>2</b>	SI+
3	SI-
4	EX-
5	SHEILD

Wireless LDU Receiver  
M8 5pin male connector



PIN NO	RS-485
1	GND
<b>2</b>	DATA+(A)
3	N/C
4	DATA- (B)
5	PWR+

Wireless LDU Receiver

Option	Description	G4 Part Number
GEN	without RS-422 to usb converter	MNB Wireless REC
A	with RS-422 to usb converter	MNB Wireless REC RS422

### Notes

Wireless LDU transmitter

1. LDU calibrated in mV/V only
2. RF module needs to be configured to pair with receiver module
3. Group Four part number MNB wireless transmitter
4. 6ft M8 5 pin female to open end home run cable provided

### Notes

Wireless LDU receiver

1. 6ft M8 5pin female to open end homerun cable provided
2. Receiver box need to be configured to pari with transmitter box
3. Use Part number XS890 as the RS485/422 to usb converter