



# FCX Wireless Process Solutions

## Equipment Health Monitoring

SolutioNet™101.1

Your plant has hundreds of rotating equipment assets. Continuous monitoring of this equipment through traditional wired devices has historically been impractical and prohibitively expensive. As a result, these critical production assets can often go months or years without manual inspection. FCX's patented Wireless Solution makes equipment health monitoring simple, practical and affordable by eliminating the need for wire and conduit or custom equipment & software.

THIS DATASHEET CONTAINS PROTECTED INFORMATION ON PATENTED TECHNOLOGY

**Applications**

FCX's Equipment Health Monitoring devices include point monitoring on all types of rotating equipment assets even in the most isolated areas of your plant.

- Monitor assets in hard-to-reach or cost prohibitive locations
- Reduced maintenance costs
- Improved planning

- Pumps
- Bearings
- Motors
- Compressors
- Cooling tower fans
- Bearings
- Gearboxes

**Key Features**

- Easy to install via "magnet" mount
- Can be single-point or multi-point
- No settings to adjust
- Can include integral temperature
- ISO 10816-3 Approved method
- You do not need an expert
- Wave form analysis is available

**Typical Machine Problems**

- Pump cavitation
- Imbalance, misalignment
- Gear defects
- Bearing defects

**Benefits**

- Advanced awareness of developing performance problems helps to avoid unplanned shutdowns
- Keep employees out of hazardous areas

ISO 10816-3  
*"When vibration changes are gradual, maintaining a more frequent watch over the machine will suffice. Use a sensor such that the baseline is ~15% of full scale. An increase by 2.5x the baseline requires immediate action"*

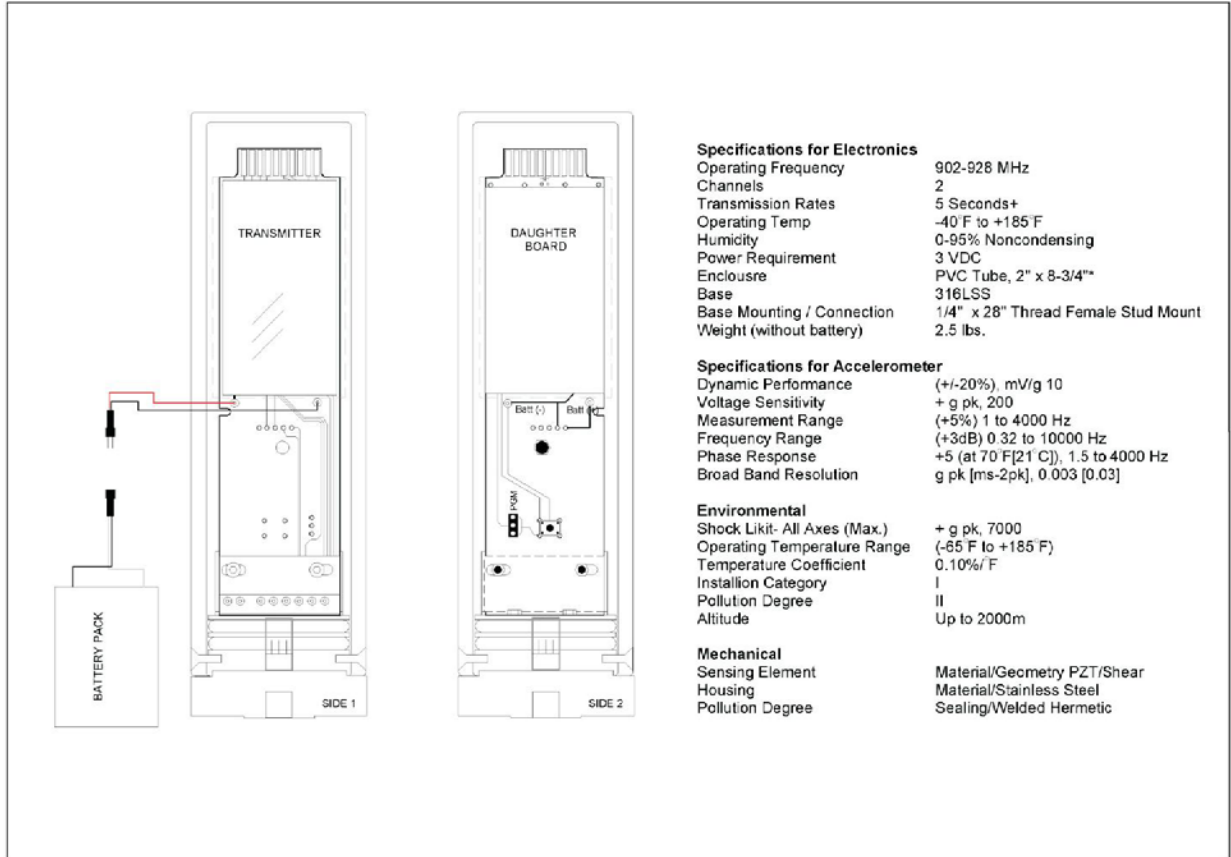


ELD-101-VV

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

Our solution can be configured as self-contained units or work together with existing SCADA and instrumentation or with our own wireless data acquisitions systems or software.

Please refer to ELD-101-VV test sheets for final parameters



				ELD-101-VV		
		SHEET 1 OF 1				
REV.	DESCRIPTION	BY	DATE	APVD	DRAWING NO. 101-1300	

ISO 10816-3		MACHINERY GROUPS 2&4		MACHINERY GROUPS 1&3	
VELOCITY		RATED POWER			
MM/SEC RMS	IN/SEC RMS	15kW - 300kW		Gp 1 300kW-50MW	
				Gp 3 Above 15Kw	
11.0	0.61	Red		Red	
7.1	0.39	Red		Orange	
4.5	0.25	Orange		Yellow	
3.5	0.19	Orange		Yellow	
2.8	0.16	Yellow		Green	
2.3	0.13	Yellow		Green	
1.4	0.08	Green		Green	
0.7	0.04	Green		Green	
0	0	Green		Green	
FOUNDATION		RIGID	FLIXIBLE	RIGID	FLEXIBLE