

IF YOU DO NOT MEASURE IT, YOU CANNOT IMPROVE IT

## TORQUE AND POWER METERS



### Shaft Power Meter Made Easy.

The E2-iON shaft torque meter is a state-of-the-art strain gage based solution designed to provide torque, RPM, and power measurements on rotating shafts, without the need for shaft disassembly or modification. The system only includes two primary components and does not require a base mount. The innovative chain link design allows for fast lead times, simplified installation and easy interchangeability between shaft sizes. Electronics are encased in potting and protected by a strong metallic housing, ensuring reliable long-term operation in the most abusive environments.

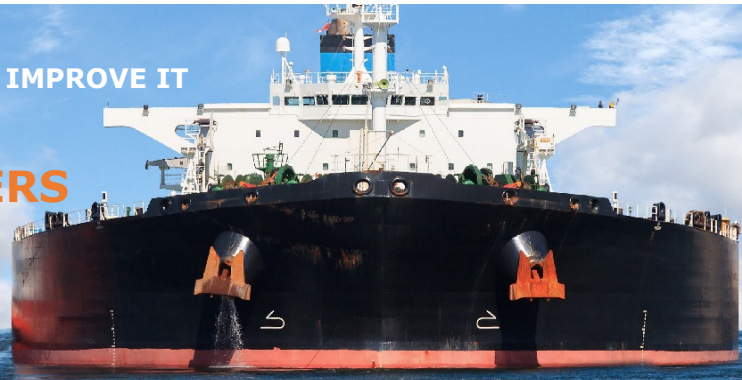
#### Features:

- **Modular** - The chain link design of the collar allows for easy change between shaft diameters. Chain links are quickly added or removed using standard hardware.
- **Fast Lead times** - Due to the chain link design of the collar, parts are stocked and ready to ship. No time-extensive machining required.
- **No Base Mount Required** - The stand-alone shaft "clamp-on" collar assembly requires no base mount. This eliminates the need for custom mounting brackets or on-site welding. The installation is dramatically simplified.
- **High Accuracy** - The use of a strain gage sensor and a 24-bit ADC ensure the most accurate measurements possible.
- **Built in Gyro** - Shaft speed is measured with internal gyro, eliminating need for more cabIe runs. Power is automatically calculated from torque and speed measurements.
- **Onboard Intelligence** - System status indicators confirm proper operation and aid in troubleshooting.
- **Low Maintenance** - Highly optimized electronics ensure minimal electricity consumption for the TX, with battery autonomy of two years . Sleep mode is also available when the shaft is not turning, extending the battery life even longer. Battery replacements take minutes.
- **Product Support** - Backed by E2's proven outstanding customer service, before and after the sale.



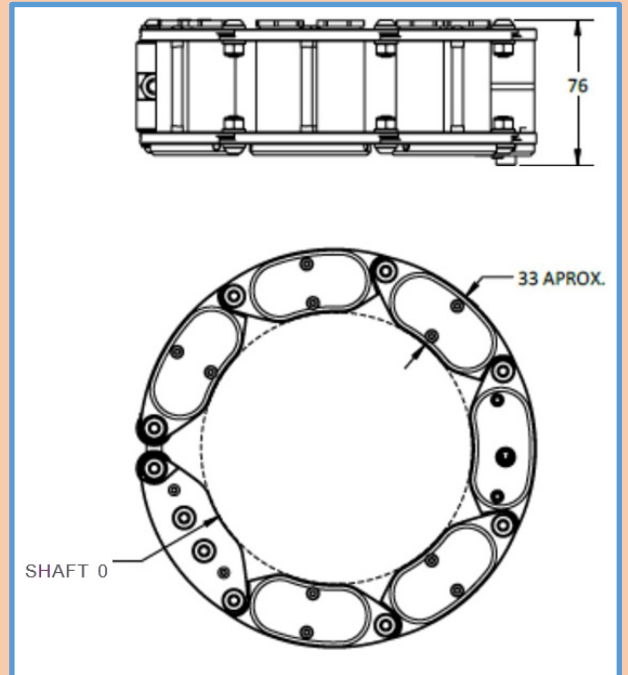
IF YOU DO NOT MEASURE IT, YOU CANNOT IMPROVE IT

## TORQUE AND POWER METERS



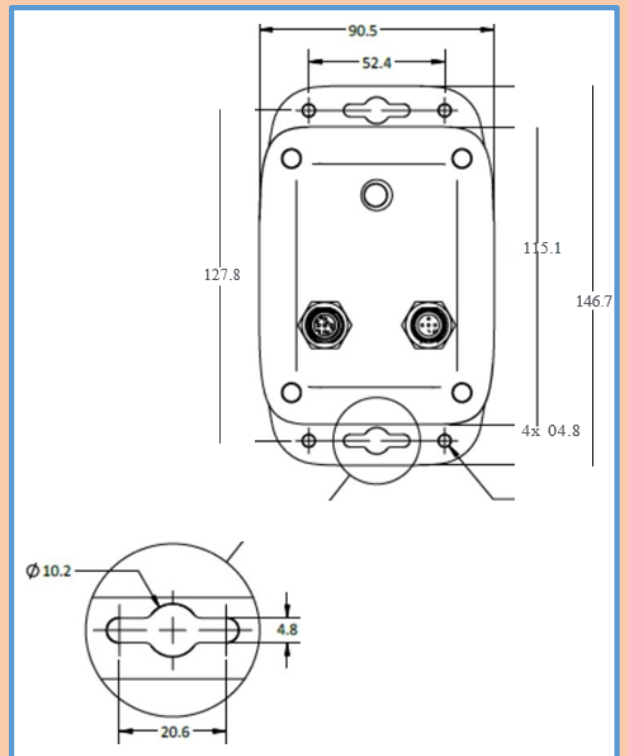
### Shaft Collar Transmitter

Power Consumption:	<1mA @ 3.6 V
Batteries:	3.6V LiSoCl2 (lowest self-discharge)
Strain Gage Sensor:	350 O torque pattern, welded or bonded
Autonomy:	2 years on 10x 3.6AH , 3.6V batteries
ADC Resolution:	24 bits
Torque Accuracy:	± 0.1%
RPM Accuracy:	± 1%
Maximum RPM:	3000 rpm
Protection:	IP 65
Signal Transmission:	Up to 20m (65 ft) line of sight
Min. Shaft Diameter:	127mm



### Receiver

Supply Voltage	24VDC
Power Consumption:	40mA max 500V
Electrical Isolation:	IP 65
Storage Temp.:	-40°C to 85°C
Operating Temp.:	-40°C to 85°C
Humidity:	10% to 90% non-condensing
Vibration:	5 -50 Hz @20 mm/s ±1.0g max
Conformity:	CE Compliant
Protection:	IP65
Sampling Rate:	4 samples per second
Protocol:	Modbus RTU over RS48



**Eefing Energy,**  
 Narvikweg 5-1,  
 NL-9723TV, Groningen,  
 The Netherlands,  
 info@eefing-energy.nl