

## Product Information

Enteq Drilling XXT Downhole Tools



# Pulser Mechanical Module

## PMM

The PMM is robust, field proven, bottom mount, positive pulser designed to take advantage of improvements in brushless DC motors technology. The improvements deliver massive increases in reliability whilst using substantially less power than older solenoid based pulsers. Piston based pressure compensation digital motor control systems give maximum data rates in the widest range of environments.

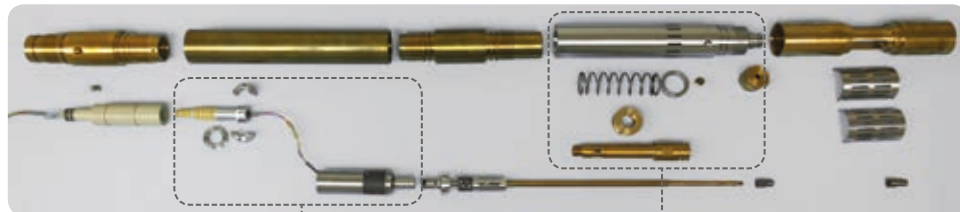
### Advantages

- Rugged, field proven design using Enteq broad experience in both electronics and mechanical engineering
- Good wash resistance using quality traceable materials sourced and machined using our own US machining capabilities and expertise
- Brushless DC motor uses significantly less power than older solenoid based designs, meaning longer drilling intervals and lower battery costs
- Unique time based digital control system allow the use of the smallest pulse width settings ensuring good data at fastest transmission rates
- Piston compensation offers significant ease of service and reliability benefits over bladder and bellows based devices.
- Handles a wide range of LCM with ease due to high closing/opening force

### Features

- Suitable for harsh environments with true 175 Deg C and 20000 psi specification
- Compact positive pulse design giving the benefit getting sensors closer to bit and reducing overall tool-string length
- Fully compatible and optimised for use with the XXT PDEM Pulser Driver to give maximum data rates
- Easy to service and oil fill with a small number of parts mean less time in the shop.
- Uses standard helix and lower end and is fully retrievable/reseatable
- Can be operated with other pulser drivers

Small number of parts for rapid servicing



Powerful but efficient  
brushless DC motor

Piston compensated  
for greater reliability



Contact

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## Specifications

<b>Pressure Rating:</b>	20000 psi	<b>Wash Resistance:</b>	Good
<b>Temperature Rating:</b>	175 Deg C, 350 Deg F	<b>LCM Handling:</b>	Good - 40lbs/bbl Medium Nutplug
<b>Length:</b>	32.5"	<b>Max Solid Content :</b>	less than 1%
<b>OD:</b>	1.875"	<b>Open &amp; Close Force:</b>	Max 75lbs
<b>Weight:</b>	21lbs	<b>Battery Life:</b>	Up to 500 Hours - Directional only
<b>Operating Voltage:</b>	16-36v	<b>Shock:</b>	500g, 0.5msec, ½ sine all axes
<b>Construction Materials:</b>	Nitronic & BeCu	<b>Pulse Width:</b>	Variable
<b>Vibration:</b>	23g, 30-1000 Hz Random waveforms, all axis		

## The complete Enteq Drilling product range

Enteq Drilling provides next-generation MWD systems and components for Directional Drilling. Enteq is pursuing a focused acquisition strategy and investing in product development in order to provide a range of technologies and products to global and regional service companies.

### XXT Downhole Tools

- Directional Sensors
- Directional Interface Module
- Positive Pulser
- Pulser Drivers
- Translator Modules
- Vibration Monitor
- Dual Gamma Interface

### XXT Surface Gear

- MUD Pulse receiver cards
- Surface Translator:
- Tool to PC
- Full Laversab PC surface system

### XXT Software

- A full suite of programming and MWD output software with multiple specialized applications

### Drilling Products

- MWD mechanical parts
- Mud motor parts
- Float valves
- Fabrication services

## Contact

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## Useful links

<b>Technical Support:</b>	<a href="mailto:techsupport@enteq.com">techsupport@enteq.com</a>
<b>Suggestions and Questions:</b>	<a href="mailto:suggestions@enteq.com">suggestions@enteq.com</a>
<b>Software Downloads:</b>	<a href="http://www.enteq.com/downloads">www.enteq.com/downloads</a>
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