

MEM Specifications

Mostars MEM is our standalone electromagnetic tool. This is the strongest fastest transmitter in the industry with data rates as high as 16 bits per second. This is the perfect tool for fast hole applications where high data density is required. This transmitter has over 10 years of experience and modifications that have helped it become the fastest most reliable EM system on the market.

Carrier Freq. (Hz)	Pulse width	Max. bit rate (bits/sec.)	Carrier Freq. (Hz)	Pulse width
1	0.5	2	1	0.5
2	0.25	4	2	0.25
3	0.1667	6	3	0.1667
4	0.125	8	4	0.125
5	0.1	10	5	0.1
6	0.083	12	6	0.083

Applications

- Fast drilling of 150+ meters an hour
- Designed to run in all drilling fluids
- Under Balanced Drilling
- High speed drilling where fast data rate is required

Benefits

- Low maintenance
- No restriction to LCM
- High Powered Transmitter
- No moving parts



MEM Specifications

GENERAL

Pressure drop: 100 psi

Power source: 28 to 36 volt lithium.
High temperature available.

Operating Hours: Configurable up to 500 hours

Programmability: full programmability at surface. Down link via rotary, pump or talk down.

Retrievable: Configurable

Data Configuration: User configurable

Toolface Updates: 2 Seconds

DIRECTIONAL SPECIFICATIONS

Electrical

Operating voltage range: 12 Volt to 36 Volt

Environment

Operating temperature: 32°F to 302°F (0°C to 150°C)

Survival temperature: -40°F to 365°F (-40°C to 185°C)

Operating Pressure: 20,000 psi (138 MPa)

Performance

Inclination: Absolute +/- 0.1° Spread 0.2°

Azimuth: Absolute +/- 0.2° Spread 0.4°

Gravity Toolface: Accuracy +/- 0.1°

Magnetic Toolface Accuracy: +/- 0.1°

Total G field accuracy: +/- 0.0015 g

Total H field accuracy: +/- 75 nTeslas

GAMMA MODULE SPECIFICATIONS

Environment

Operating Pressure: 20,000 PSI (138 MPa)

Operating temperature: -20°F to 350°F (-29°C to 177°C)

Maximum heat/cool rate: 3° C/minute

Vibration: 20 gRMS (15-1000 Hz)

Performance

Maximum API range @ 5% PPU error 8000 API

Accuracy: +/- 2% @ 302°F (150°C)

Thin Bed Resolution: 6.8" (17.3 cm)

