



Tool-In-Riser Detector

The Tool-In-Riser Detector (MDET) is used to help service companies when running tools, inside lubricators for pressure deployed operation to improve safety in the wellhead operating area.

The sensor is strapped around the riser from the wellhead where it can detect the passing end of tools and tool joints and relays this information to the Control Box giving a visual and audible warning to the operators. It is so sensitive it can detect the end of broken CT.

The Sensor Assembly is intrinsically safe and certified for use in Zone 0. The Control Panel and battery pack are certified for Zone 1.

Applications

The detector can be used for numerous applications, including:

- Detection of broken CT – prevents broken tubing from accidentally being pulled through the stripper
- Detecting tools in the riser
- Tool deployment
- Counting and detecting tool joints
- Cement plug launches
- Ball drop

Features & Benefits

- **Safety** – prevents tools or broken tubing being accidentally pulled out of the riser.
- **Responsive** - The product responds to natural magnetic signature. No marker required.
- **Alarms** - The detectors have visual and audible alarms to alert you.
- **Variations** - Available as a stand-alone case or panel mounted.
- **Compatible** - The Tool-in-Riser Detector can be interfaced with data acquisition systems.



Specifications

The following ratings and specifications do not apply to the Subsea MDET Universal Detector for which further information is available on request.

Specifications	
Input Voltage	110V or 230V
Operating Temp. Range	-4°F to 104°F (-20°C to 40°C)
Sealing Classification	IP54
Certification	EC Directive 94/4/EC (ATEX)
International Standards	
All Items	EN50014:1997 (Amendments A1-A2)
Control Panel	EN50019:2000, EN50028:1987
Sensors	EN50020:1994
Sensor Clamping Mechanism	Straps
Riser Height for attachment of sensors	32" (800mm)
Max. Distance control panel to sensors	160ft (50m)
Riser Outside Diameter	4" to 8" (100mm to 150mm) typical
Wall Thickness	1" (25mm) max
Type	Any Steel

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