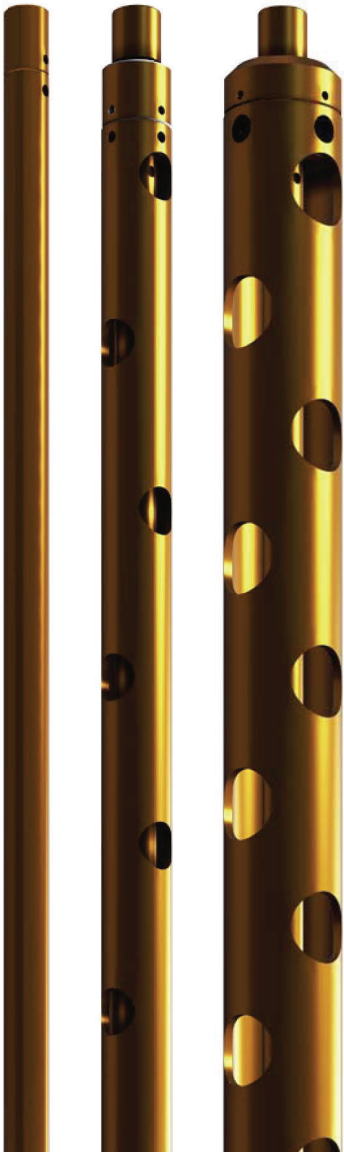# RFM

REMOTE FIRING MECHANISM

the new standard™

TRIGGER TECHNOLOGY

MCR's Remote Firing Mechanism is a reliable activating system developed specifically for the MCR range of products. Designed and field proven with safety, versatility, and serviceability at its core, the Remote Firing Mechanism can be run on slickline, coiled tubing or drill pipe, and as a pressure firing system, to activate all MCR pipe cutting, MCR perforating and MCR setting tool systems.

3 IN 1

OPTIONS • SYSTEM

BENEFITS

● **Professional**
Compatible with **XRT**®tool, **RCT™** tool, **PTC™** tool, CPT tool, PPT tool, APT tool, CAT tool, **MUST™** system, **THG™** activator and **PowerStick™** components.

● **Smart**
User defined pressure, temperature, time and movement thresholds can be recorded and programmed at the well site based on actual logged wellbore details.

● **Safe**
Multiple safe thresholds built into the RFM ensure that operator and well safety are not compromised. Additional operational control/safe features include "all safe" shutdown disabling all RFM operations during well exit process thus eliminating the potential for surface initiation.

● **Reliable**
Designed to deliver up to two weeks logging capacity in HPHT environments.

● **Versatile**
Able to conduct a logging pass for data collection offering the operator the ability to pinpoint the thresholds necessary to operate with precision.

● **Deployable**
Designed to be deployed with "off-the-shelf" alkaline or NiMH batteries for high temperatures.

● **Flexible**
Deployed as a pressure firing system, MCR's RFM delivers the capacity to conduct operations requiring pressure activation control of downhole MCR cutters and other MCR products from surface.

● **Additional Systems**
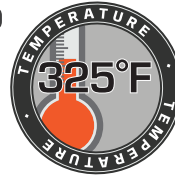Expansion modules enabling Gamma and CCL correlation are in development.

3 SIZE CONFIGURATIONS · 1 SYSTEM · RADIO SAFE · PASSENGER SAFE · RAPID DEPLOYMENT

24/7 SERVICE + SUPPORT + SOLUTIONS

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[sales]   EMAIL: sales@mcroiltools.com » tel. (DIRECT): + 1 817 704 6661 » fax: +1 817 701 5105

RFM

REMOTE FIRING MECHANISM

the new standard™

UP TO 325°F — TEMPERATURE

UP TO 30K — PRESSURE PSI

7/8" O.D. x 46-1/2" LONG

1-1/2" O.D. x 49-1/2" LONG

2-1/2" O.D. x 50-1/2" LONG

SPECIFICATIONS

- Available tool sizes: (single RFM kit contains 2 complete systems in the following configurations)
  ◦ 7/8" O.D. X 46-1/2" long ◦ 1-1/2" O.D. X 49-1/2" long ◦ 2-1/2" O.D. X 50-1/2" long
- Operation in temperatures up to 325°F (163°C) & pressures up to 30,000 psi (207 MPa)
- Slickline, coiled tubing, pipe conveyed system or below tandem toolstring
- Radio safe
- Class 1, Division II safe computer system (Xplore® tablet PC)
- Designed to activate all MCR systems
- Data logging tool: well data displayed on Xplore® tablet PC
- Operator determined thresholds based on deployment requirements
  - ◦ Elapsed Time   ◦ Temperature
  - ◦ Pressure   ◦ Acceleration
- **NOT TO BE USED WITH ANY EXPLOSIVE DEVICES!**

7/8" RFM TOOL SPECIFICATIONS

DESCRIPTION:	7/8" REMOTE FIRING MECHANISM
LENGTH:	46-1/2" (118.11 cm)
O.D. MINIMUM:	7/8" for use with MCR's 3/4" through 1-3/8" tool series
PRESSURE RATING:	0 ksi - 5 ksi & 1 ksi - 30 ksi modules
TEMPERATURE RATING:	325°F (163°C); battery choice dependent
LOGGING TIME LIMIT:	Battery and temperature dependent
MEMORY:	8GB, expandable for GR/CCL modules
SAFETY PARAMETERS:	Selectable temperature, pressure, time and movement (3-axis accelerometer)

1-1/2" RFM TOOL SPECIFICATIONS

DESCRIPTION:	1-1/2" REMOTE FIRING MECHANISM
LENGTH:	49-1/2" (125.73 cm)
O.D. MINIMUM:	For use with MCR's 1-1/2" through 2-1/2" tool series
PRESSURE RATING:	0 ksi - 5 ksi & 1 ksi - 30 ksi modules
TEMPERATURE RATING:	325°F (163°C); battery choice dependent
LOGGING TIME LIMIT:	Battery and temperature dependent
MEMORY:	8GB, expandable for GR/CCL modules
SAFETY PARAMETERS:	Selectable temperature, pressure, time and movement (3-axis accelerometer)

2-1/2" RFM TOOL SPECIFICATIONS

DESCRIPTION:	2-1/2" REMOTE FIRING MECHANISM
LENGTH:	50-1/2" (128.27 cm)
O.D. MINIMUM:	For use with MCR's 2-1/2" through 7" tool series
PRESSURE RATING:	0 ksi - 5 ksi & 1 ksi - 30 ksi modules
TEMPERATURE RATING:	325°F (163°C); battery choice dependent
LOGGING TIME LIMIT:	Battery and temperature dependent
MEMORY:	8GB, expandable for GR/CCL modules
SAFETY PARAMETERS:	Selectable temperature, pressure, time and movement (3-axis accelerometer)

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[sales] EMAIL: sales@mcroiltools.com » tel. (DIRECT): + 1 817 704 6661 » fax: +1 817 701 5105