# FCS-MR800

## 40 MM FIRE CONTROL SYSTEM & AIRBURST PROGRAMMER

The Fire Control System MR800 (FCS-MR800) from Rheinmetall Soldier Electronics (RSE) is a highly integrated system for 40 mm low and medium grenade launchers. It can be mounted on any stand-alone, underslung or multiple grenade launcher via Picatinny rail. The integrated ballistic computer stores the ballistics of 32 different ammunition types and calculates a ballistically corrected aim point. With its precise range finding (inbuilt LRF) and accurate elevation angle, the FCS-MR800 increases the first round hits.

The FCS-MR800 is completed by the electronically focusable IR illuminator and the two built-in aiming lasers (infrared and visible). To keep the aiming point in focus, the FCS-MR800 automatically moves the inner module part to adjust the elevation angle. The FCS-MR800 improves the first round hit probability. It includes an Infrared Air Burst Munition (IR-ABM) programmer which increases the lethality of individual rounds and allows engagement of targets behind cover or in trenches. Eye safe training mode for effective force on force training. Laser output power is set by smart colour-coded trigger cables or dongles (RSE patent granted) e.g. white and blue for training, black and grey for operations.

### FEATURES
- Electronically focusable IR illuminator
- IR aiming laser and visible aiming laser
- All lasers and LRF co-aligned to bore sight with a single adjustment
- Tactical LRF (invisible to night vision goggles)
- Inclinometer – measures shooter/target elevation delta – perfect for uphill and downhill shooting
- Inbuilt ABM programming unit: programs ammunition (from Rheinmetall) in first few meters of flight
- Ready for radio transmission with Nammo ABM ammunition
- Waterproof up to 10 m for 1 h (IP68)
- Powered by two IEC CR17345/CR123 batteries

### BALLISTIC COMPUTER
- Calculates the correct elevation angle, stores the ballistics for 32 round types – only desired types shown
- Compact servomotor – adjusts the correct aiming point

### WEAPON MOUNTING
- Standard picatinny mount (MIL-STD-1913/STANAG 4694)
- Various sights available
  – Aimpoint®
  – Trijicon®
  – Docter®

PASSION FOR **TECHNOLOGY.**

**RHEINMETALL**

| General | | | Ballistic computer | |
|---|---|---|---|---|
| Length x width x height [1] | 155 x 75 x 115 mm | | Type | RSE Algorithm |
| Extension from rail | 70 mm | | Max. storage capacity | 32 ammunitions types |
| Weight incl. battery, rail mount and reflex sight | 710 g | | Elevation mechanism | Electric motor |
| Battery | 2x IEC CR17345/CR123 | | Tilt/Elevation range | 0° to 30° |
| Battery life | 4 h (Dual IR 30/80 mW) | | Atmospheric sensors | Pressure, humidity, temperature |
| | or 500 target acquisitions | | Canting assistance | In display, blinking red dot sight and blinking IR laser |
| Waterproof (IP68) | 10 m for 2 h | | | |
| Operating temperature (STANAG 2895) | −32°C to +71°C | | **Airburst programmer (integrated)** | |
| Test standard | MIL-STD-810 | | Power output | 5 W pulse |
| **Range finder** | | | Wavelength | 905 nm |
| Measurement range | 1,500 m | | | |
| Power output | 5 W pulse | | | |
| Wavelength | 1,550 nm | | | |
| Typ. Beam divergence | 0.5 mrad | | | |

| Mode | typ. wavelength | typ. output power | typ. beam divergence |
|---|---|---|---|
| Visible aiming laser red | 640 nm | 60 mW | 0.5 mrad |
| IR aiming laser | 850 nm | 30 mW | 0.5 mrad |
| IR illuminator w. electronic focus | 850 nm | 60 mW | 5 mrad to 150 mrad |

[1] *Height is including Docter® sight.*

*All parameters in the tables were measured at room temperature.*



Laser beams can cause damage to your eyes. The user is responsible to observe the local safety regulations.

*Subject to technical changes, error, and printing errors.*

**CONTACT US**

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