

## » MSF1000

AN ECONOMICAL TIME SOURCE FOR YOUR TIME SERVER



### KEY BENEFITS

- Synchronise your time server to the UK national time reference
- Indoor or outdoor installation
- Simple to install surface mounting enclosure
- A low-cost alternative to GPS

The MSF1000 is an economical radio time code receiver, designed to operate as a low-cost or back-up timing reference for your time server. The radio receiver may be mounted externally or internally, and can be used in applications where GPS signals are not available.

### MSF RADIO TIME SIGNAL

The Time from NPL MSF radio signal is the UK national time reference broadcast from Cumbria in England, and can be received across the UK and parts of northern and western Europe. The MSF signal, (previously broadcast from Rugby and known as the Rugby Clock) is broadcast at 60 kHz and is controlled by caesium atomic clocks maintained by the UK National Physical Laboratory (NPL).

### SIMPLE INSTALLATION

Installing the MSF1000 is simple. The enclosure is suitable for internal or external installation and is available with a choice of cable lengths.

The cable is supplied pre-terminated for quick and easy connection to your time server.

**Model Variations:**

MSF1000-05:	MSF1000 Time Receiver supplied with 5m (15ft) cable
MSF1000-15:	MSF1000 Time Receiver supplied with 15m (50ft) cable
MSF1000-50:	MSF1000 Time Receiver supplied with 50m (150ft) cable

**Typical Performance Specifications:**

PPS accuracy:	40 msec
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**I/O Connections:**

I/O connection:	Single 1000 Series communication port
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**Mechanical & Electrical Specifications:**

<b>Dimensions:</b>	202 x 80 x 55 mm (7.95" x 3.15" x 2.17") (including removable wall brackets, excluding cable grommet)
<b>Weight:</b>	0.5 kg (excluding cable)
<b>Enclosure:</b>	IP66 / NEMA 4X rated, UV stabilised polycarbonate enclosure. Light grey body and clear cover
<b>Cable:</b>	Two pair plus drain 7x32 (24 AWG) stranded cable with 100% foil shield and semi-rigid, sunlight resistant, Polyvinyl Chloride (PVC) jacket

**Environmental Specifications:**

<b>Operating temperature:</b>	-20 to +50 °C
<b>Relative humidity:</b>	0% - 95%, noncondensing

**Warranty & Support:**

<b>Warranty:</b>	5 years
<b>Support:</b>	Free-of-charge lifetime technical support

**Standards compliance:**

<b>Electrical Safety:</b>	BS EN 60950-1:2006
<b>Radio Disturbance:</b>	BS EN 55022:2006
<b>Immunity Characteristics:</b>	BS EN 55024:2003
<b>RoHS:</b>	RoHS-Compliant