worldtime SOLUTIONS

DATA SHEET

DCF1000

AN ECONOMICAL TIME SOURCE FOR YOUR TIME SERVER

KEY BENEFITS

Synchronise your time server to the DCF77 radio time signal

Indoor or outdoor installation

Simple to install surface mounting enclosure

A low-cost alternative to GPS

The DCF1000 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.

DCF77 RADIO TIME SIGNAL

DCF77 is longwave radio time signal broadcast from Mainflingen near Frankfurt, Germany. The signal is broadcast at 77.5 kHz and can be received across large parts of Europe.

SIMPLE INSTALLATION

Installing the DCF1000 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:

DCF1000-05:	DCF1000 Time Receiver supplied with 5m (15ft) cable
DCF1000-15:	DCF1000 Time Receiver supplied with 15m (50ft) cable
DCF1000-50:	DCF1000 Time Receiver supplied with 50m (150ft) cable

Typical Performance Specifications:

PPS accuracy:	40 msec

I/O Connections:

I/O connection:	Single 1000 Series communication port

Mechanical & Electrical Specifications:

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

Environmental Specifications:

Operating temperature:	-20 to +50 ºC
Relative humidity:	0% - 95%, noncondensing

Warranty & Support:

Warranty:	5 years
Support:	Free-of-charge lifetime technical support

Standards compliance:

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

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