

LF Antenna Active / Passive

For use with M210 and M211 Modular Timing Systems. The LF Antenna picks up the desired LF broadcast signal and sends it to a corresponding LF receiver in the Timing System. Choose between the standard Passive LF Antenna, or the Active LF Antenna for areas of poor radio reception.



Both the Active and Passive versions of the LF Antenna are identical in form and fit.

Features

- Supplied complete with 15 metres of cable.
- Our LF Antennas are available for the following time broadcast signals:
 - MSF 60kHz (UK)
 - DCF77 77.5kHz (Germany)
 - WWVB 60kHz (USA)

Passive LF Antenna

The antenna utilises a tuned ferrite rod for reception of the required LF signal.

It is suitable for applications where safety is critical, e.g. military, oil & gas refineries, or similar applications as there is no power sent to the antenna.

Cable lengths of up to 100 metres may be utilised with the Passive LF Antenna (please note that that the Passive LF Antenna is not supplied with cable).

N.B. Please consult us if you are unsure whether you need an Active or Passive LF Antenna.

Active LF Antenna

Certain areas may experience poor radio reception of LF time signals especially with antenna locations involving steel structured buildings.

In such cases, we recommend the use of the Active LF Antenna, which will improve reception and help overcome interference or weak signal strengths.

This Active LF Antenna will increase the gain of the signal by 32dB with a signal to noise ratio improvement of the order of 26dB.

Cable lengths of up to 300 metres may be utilised with the Active LF Antenna. 15 metres of cable are supplied with the Active LF Antenna as standard.



LF Antenna Specifications

Antenna Connections

Time Broadcast Signal to Receiver: 50Ω coaxial cable (e.g. URM76)

A terminal block is provided in the antenna for termination of the Antenna – Master Clock cable. A cable gland is provided on the outside of the box for cable support and prevention of water ingress.

Active LF Antenna Typical Performance (over the Passive LF Antenna)

Signal Level Improvement: +32dB

Signal/Noise Improvement: +26dB

Environmental

(Operation & Storage)

Temperature: -20°C to +60°C

Humidity: 100% RH

Water Ingress: Sealed to IP67 (IEC529)

EMC: CE Compliant

Ordering Information

Please quote relevant part number when ordering.

Antenna Type	Detail	Part No.
Active LF	MSF/WWVB	0210AD000L
Active LF	DCF77	0210AD000N
Passive LF	MSF/WWVB	0210AD000M
Passive LF	DCF77	0210AD000P