



**I.S. (Radio Time Signal Controlled) Wall Clocks Ex-Time 40/50 (35)**



These intrinsically safe wall clocks, Ex-Time 40 and 50, are driven by a Quartz accurate movement, powered by a LR 14 type battery. When necessary, e.g. for summer to winter time, adjustments can be quickly and simply made. An integral bracket enables the clock to be easily fixed to a wall.

With two different sizes to choose from, the optimum size for site requirements is now available.

Please note: Battery changes must only be done outside of the Ex-hazardous area.

**For precise time in Ex-areas:**

- Quartz movement
- Robust metal casing
- Available in two different sizes

**Ex-Data:**

Ex designation:

Ⓜ II 2 G EEx ia IIC T4

EC-Certificate of Conformity:

PTB 02 ATEX 2197 X



I.S. Class I Division 1 Groups A;B;C;D T4

Technical Data	Ex-Time 40	Ex-Time 50
Operating Temperature:	0°C to +50°C	
Battery operating life:	1 year	
Clock Movement:	Quartz	
Accuracy:	+15 / -5 Seconds	
Power Supply:	1 x LR 14 (according to IEC)	
Weight:	approx. 2,0 kg	approx. 3,5 kg
Dimensions:	400 x 60 mm	500 x 70 mm

**Accessories:**

Spare battery type LR 14



The Ex-Time 35 i.s. wall radio clock receives time signals from the DCF77, Germany's official time signal transmitter located at Mainflingen near Frankfurt via 77.5 KHz long-wave.

The transmitter itself receives time pulses from the world's most accurate clock, the caesium time base of the PTB [Physical Technical Federal Institute] in Braunschweig. Its precision guarantees that it would take one million years for a cyclical deviation of 1 second to occur.

The Ex-Time 35 receives the signal via an

**Accuracy to a second in Ex-hazardous areas: Radio time signal controlled wall clock from ecom.**

- Absolute precise time thanks to DCF 77 time signal
- Highly sensitive integral aerial
- Automatic changeover between summer and winter time
- Stylish but tough metal housing

**Ex-data:**

Ex designation:

Ⓜ II 2 G EEx ia IIC T4

EC-Certificate of conformity:

TÜV 01 ATEX 1712

**Technical data:**

Aerial:	Highly sensitive integrated double aerial
Receiving:	integrated DCF 77 receiver
Frequency:	77,5 kHz
Broadcast range:	approx. 1500 km from Frankfurt (Germany)
Self monitoring:	once per hour
Operating temperature:	-20°C to +40°C
Synchronisation with time signal:	every hour
Typical battery life:	approx. 5 years
Battery:	acc.to IEC LR 14
Housing (frame):	aluminium
Weight:	approx 1500 g
Ingress protection:	IP 54
Dimensions:	350 x 70 mm

integrated antenna anywhere that a portable radio can obtain a useful reception over long-wave.

The microprocessor integrated into the Ex-radio clock processes the received time signals and fully automatically controls the dial. This eliminates the tedious adjustment from STANDARD TIME to SUMMER TIME.

The radio clock is powered by a battery that under normal usage has a life of several years. Battery replacement is extremely simple although must be done outside of the ex-zone.