



SICLIMAT X™ DCF3

Radio-controlled clock for DCF 77 signals

DCF3

The DCF3 provides accurate time data for all SICLIMAT X systems within a plant. The DCF3 is connected to a serial port and synchronised by radio signal.

Application

In PCs designed for multiple users and multi-tasking, the large number of simultaneous processes can result in a system clock error of five or more minutes per month.

To deal with this problem, a special radio clock module has been developed, suitable for connection to any UNIX computer via an RS232 port. This radio clock receives the time frequency standard from the national institute of metrology in Brunswick, Germany, and uses software to synchronise the system time every minute (the interval is adjustable).

This prevents time discrepancies and makes manual checking and correction of the system time unnecessary.

Ordering

When ordering, please specify the quantity, product name and type code.

<i>Type</i>	<i>Order No.</i>	<i>Tender Specification Ref. No.</i>
DCF3 radio clock for DCF 77 signal External aerial	6FL4301-4NA14	15/47.002A
	To be ordered directly from Hopf	

Function

- Receives the time frequency standard transmitted by radio clock
- Adopts the standard time on the computer
- Performs automatic daylight saving time changes (from standard to summer time and vice versa)
- The radio clock uses the caesium clock reference standard at the national institute of metrology in Brunswick, Germany (error 1 second in 1 million years)

Prerequisites

- Operation must be via one of the serial ports of the X-OS
- Requires radio clock module with software package
- Computers must be located within a 1500 km radius of Frankfurt/Main, Germany (approx. 950 miles)
- SICLIMAT X V3.1

Technical data

	Type	DCF3 radio-controlled clock
Power supply	Consumption	2.5 VA
	Operating voltage	DC 18 – 60 V
Accuracy	Time error	± 2 ms in relation to the DCF77 signal at the point where the receiver aerial is located
Mounting	Mounting method	DIN rail
Connections	External aerial	
	– Cable lengths	Max. 500m aerial cable
	– Electrical isolation	DC 500 V
Dimensions / Weight	Dimensions (H x W x D)	105 x 63 x 130 mm
	Weight	0.7 kg
Ambient conditions	Operating temperature	0 ... 70°C
Product safety	Meets the requirements for CE marking	