SIEMENS

Product data sheet 2XV9450-2AR01

INDUSTR. TIME SYNCHRONISATION CENTRAL PLANT CLOCK SICLOCK TC400. STAND ALONE DEVICE.

product brand name		SICLOCK
Product designation		Central plant clock
Product-type designation		TC400
Supply voltage / for DC	V	24
Relative positive tolerance / of supply voltage	%	20
Relative negative tolerance / of supply voltage	%	15
Buffer time / on power supply failure / maximum	ms	3
Continuous current / rated value / maximum	A	0.7
Operating current / of fuse protection at input / slow-blow	A	1
supplied active power / maximum	W	15
Active power loss / typical	W	7.5
Protection class IP		IP20
Operating resource protection class		III (according to EN 60536)
Time deviation		
• relative to GPS signal / maximum	µs	50
• referred to DCF77 signal / maximum	µs	1,000
Relative accuracy		
• on loss of GPS signal / maximum	%	0.0001
• with loss of DCF77 signal / maximum	%	0.000001
• on power supply failure / maximum	%	0.0004

Clock error compensation / relative to 1 s / in micro-steps	µs	50
Time deviation / of the GPS signal / with jitter / maximum	ns	200
Standard / for EMC		EN 55022 Class A, FCC Class, EN 55024
protocol / is supported		(S)NTP, DCF77, pulses, cycles, message frames
Battery life		
• during operation / minimum	a	12
• unconnected / during storage / minimum	a	12
• connected / during storage / maximum	a	6

Ambient conditions:

Standard		
• for ambient influences during operation		EN 60721-3-3 class 3KS
• for ambient influences during storage		EN 60721-3-2 class 2K4
Ambient temperature		
• during operating	°C	0 … 65
• during storage	°C	-40 … +70
• during transport	°C	-40 … +70
Temperature change / of the ambient temperature / relative to one hour / without condensation		
• during operation	°C	10
• during storage	°C	20
Norm / for relative humidity		
• for environmental influences during operating phase		IEC 60068-2-78, IEC 60068-2-30
• for environmental influences during storage		IEC 60068-2-78, IEC 60068-2-30
Relative humidity / at 25 °C / without condensation		
• during the operating phase	%	10 … 95
• during storage	%	10 … 95
Air pressure	hPa	795 … 1,080
Installation altitude	m	-1000 … +2,000

Inputs/Outputs/Interfaces:

Number of interfaces / according to Industrial Ethernet		4
Transmission rate		
• with Industrial Ethernet	Mbit/s	10 … 100
Potential separation / between Ethernet and electronic		Yes
Product function / at the Ethernet interface / autonegotiation		Yes
Design of the inputs / for clock time		2x GPS1000 / DCFRS time input 48 V / 40 mA
Type of outputs / for supply of the antenna		20 mA to 40 mA at 48 V
Number of interfaces / as output		
• conforming to 20 mA (TTY)	1	2
• according to RS 422	1	1

Number of relay outputs / as normally closed contacts		
• for ALARM	1	1
• for WARNING	1	1
Current carrying capacity / of the relay outputs / at 48 V / with DC	A	0.06

Installation/mounting/dimensions:

Mounting type		DIN rail 35 mm or 19 inch rack
Width	mm	180
Height	mm	89
Depth	mm	47

Certificates/approvals:

Further information:

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)
http://www.siemens.com/industrial-controls/mall

Cax online generator
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/2XV9450-2AR01/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=2XV9450-2AR01

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