

year



reddot design award  
honourable mention 2009

Save time

## SC 28.19 pro

[paladin 172 419 pro]

- 1 channel
- Daily, weekly and yearly program
- 300 memory locations
- 10 years battery-reserve
- Minimum interval 1 min.
- Switching capacity 16 A per channel
- Permanent by date / holiday function
- Manual permanent mode
- Manual override
- Automatic sorting of switching times on readout
- Unrestricted block programming
- Fully automatic daylight saving time
- Elapsed time and pulse counter
- Pulse function
- Cycle function
- Timer function
- Channel button function
- DCF function
- Security by PIN-Code
- Illuminated display
- Compact 35 mm wide housing
- Data-key function

### Further information / Accessory

**Accessory: Data-key DK pro and Programming package PP 50 pro / PP 60 pro**  
(not included in delivery of the time switch)



**Accessory: Radio receiver DCF-Time FU 20.00 pro**  
(not included in delivery of the time switch)



**Accessory: Radio receiver GPS-Time FU 3x.00 pro**  
(not included in delivery of the time switch)



### Comparable products ...

**SC 98.x0 pro / paladin 179 6x0 pro** with additional features:  
4 TE, 1–4 channel version, external input

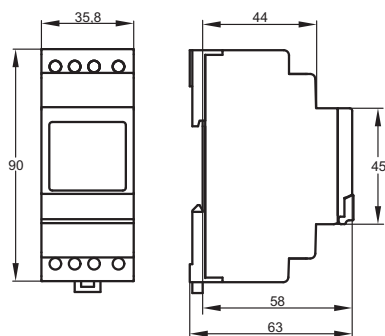
### Highlights

- Yearly program with Easter function, Weekday function and Extra-switching-time function
- Text based menu and self-explanatory symbols
- Display with a large dot matrix area to provide two high resolution text lines
- Easy handling. Quick and intuitive programmable time switch
- Can be programmed with supply disconnected
- Unlimited program security by E<sup>2</sup>-PROM
- Programmable with PC  
(Accessory Data-key DK pro and Programming package PP 50 pro / PP 60 pro)

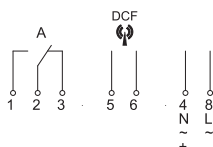
basic extended premium

## Digital time switches SC 28.19 *pro* [paladin 172 419 *pro*] for DIN-rail mounting

### Technical data



SC 28.19 *pro* / paladin 172 419 *pro*



<b>Supply voltage</b>	230 V, 50–60 Hz other voltages on request
<b>Power consumption</b> (real power)	1.4–1.9 W (depending on the switching status)
<b>Channel</b> (potential-free)	Change-over, contact gap < 3 mm (μ)
<b>Contact material</b>	AgSnO <sub>2</sub>
<b>Switching capacity</b>	16 A / 250 V~ at cosφ=1 10 A with inductive load cosφ=0.6
<b>Min. switching power</b>	1,000 mW (10 V / 10 mA)
<b>Max. starting current</b>	50 A
<b>Filament Lamp, Halogen Lamp</b>	2,000 W
<b>Fluorescent Lamp uncompensated</b>	1,000 VA
<b>Fluorescent Lamp series compensated</b>	1,000 VA
<b>Fluorescent Lamp parallel compensated</b>	550 VA
<b>LED (230 V~) / CFL</b>	200 W
<b>Switching functions</b>	ON; OFF; pulse; cycle; yearly program
<b>Pulse length Pulse function</b> (switching time)	00:01 up to 59:59 mm:ss
<b>Pulse length Timer</b> (man. switching)	0:00:01 up to 9:59:59 h:mm:ss
<b>Pulse/Pause length Cycle</b>	0:00:01 up to 9:59:59 h:mm:ss
<b>Memory locations</b>	300
<b>Minimum interval</b>	1 min.
<b>Time base</b>	Quartz or DCF / GPS (FU 20.00 <i>pro</i> / FU 3x.00 <i>pro</i> )
<b>Quartz accuracy</b> (at 20°C)	≤ ±0.5 sec./day (Quartz accuracy optimized for typical ambient conditions)
<b>Power back-up</b> (at 20°C)	approx. 10 years (depends on the Lithium-battery life)
<b>Program security</b>	unlimited (E <sup>2</sup> -PROM)
<b>Display</b>	high resolution LCD (visible area 7.5 cm <sup>2</sup> )
<b>Permitted ambient temperature</b>	–30°...+55°C
<b>Housing</b>	self-extinguishing thermoplastic
<b>Dimensions</b>	45 x 35 x 58 mm
<b>Mounting</b>	35 mm DIN-rail
<b>Type of connection</b>	Screw terminals (pull-up type)
<b>Type of protection</b>	IP 20 to DIN EN 60529
<b>Class of protection</b>	II when installed according to regulations
<b>Mode of operation</b> (DIN EN 60730-1)	1 BSTU
<b>Degree of contamination</b> (DIN EN 60730-1)	2
<b>Rated surge voltage</b> (DIN EN 60730-1)	4 kV
<b>Accessories</b> (not included in delivery)	Data-key DK <i>pro</i> , Radio receiver FU 20.00 <i>pro</i> / FU 3x.00 <i>pro</i> , Programming package PP 50 <i>pro</i> / PP 60 <i>pro</i>
<b>Certification mark</b>	VDE

Order number	Channels	Time base	Special function
SC 28.19 <i>pro</i> ✓ paladin 172 419 <i>pro</i>	1	Quartz/DCF	Yearly program
✓ Housing colour			