

Stored Program Control PDA 1+1 Clock Generator up to two Valves

Technical Information

Revision 1.1

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1. Function Mode

The clock generator PDA 1+1 is an electronic device for clocked control of control units type CON by means of electric signals in the form of a pulse-period-line having a constant altitude as well as variable (programmable) duration. This pulse sequence has an immediate effect on the secondary appliances. By means of an extension card the basic version with one channel for one metering valve can be extended by a further channel for a second metering valve.

The variable parameters pulse-time and period-time will be adjusted by means of the incremental encoder with key function being applied at the front.

The device is designed as plug-in cassette for 19"-sub-racks. The control process (beginning of control impulse output) to be started by the PDA 1+1 can be triggered by means of PLC or manually.

The clock generator PDA 1+1 is designed to be operated with a direct current voltage of + 24 V DC.

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2. Technical Data

case	plug-in cassette for 19"; aluminium, black anodized
dimensions W x H x D	142 x 129 x 178 mm (3 HE, 28 TE)
operating temperature	+5 to +35 °C
relative humidity factory	max. 80 %
storing temperature	0 to +70 °C
relative humidity storage room	max. 90 %
supply voltage	+ 24 V DC \pm 10 % by-pass in case of failure of supply of 250 ms
power consumption	max. 0,1 W (plus the power released to the load)
nominal operating mode	continuous operation
electric supply	4-pole socket (company Binder, series 680)
system of protection	IP20
data memory	non-volatile storage (EEPROM)
operation	bilingual operating menu (German, English)
pulse height	min. 23 V DC
time ranges	see following list (0.05 ms up to 10.00 s)
manual input parameter	1 incremental encoder with key function
display	2-line display with 16 characters each, blue/white
number of channels	1 (optional 2)
input signals	binary input signal to activate the pulse-period-line
output signals	24 V DC power supply for status signals status signal readiness for working PDA 1 ⁺ /malfunction metering process /status PLC (impulse output)
in-/outputs	15-pole sub-d-socket, 15-pole sub-d-jack
load outputs	pulse output min. 1.5 W; max. 2 W (permanent short circuit-proof) other outputs approx. 0.5 W (20 mA)
status display channel	2 green LEDs for status display
utility position	display in front, connecting sockets easily accessible
weight	approx. 1.06 kg

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3. Safety Instructions

The described devices and machines are equipment to be used in industrial installations.

Therefore the persons in charge for the safety of the installation have to guarantee that

- it is forbidden for unqualified personnel to effect working at the devices or machines or near same
- only qualified personnel will be instructed to work at the devices and machines
- among other things the operating manual and the other documents of the product documentation will always be at the disposal of these persons while effecting the corresponding work and that they will be obliged to observe these documents resolutely.

Qualified personnel are persons, who due to their training, experience and instruction as well as to their knowledge of relevant standards, regulations and rules for prevention of accidents and operating conditions have been entitled by the person in charge for the safety of the installation to effect the required work and who are able to recognize and avoid possible dangers on this occasion. (definitions for specialists according to VDE 105 or ICE 364)

The warranty for the products of PICODOSTEC GmbH is explicitly subject to the current version of our general terms and conditions.

These safety instructions do not lay claim to completeness.

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We took a lot of care over the verification of this product documentation. It is, however, not possible to guarantee that the documentation is faultless. If you have any further questions, please get in contact with:

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