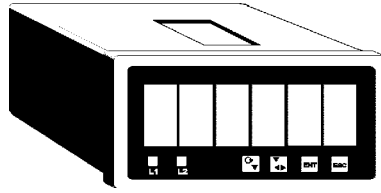


TIMING CPU CONTROLLED RELAY



logical input

6 digits: 99h 99min 59sec

INPUT SIGNALS

- 1x operative
 - voltage input 24VDC
 - non-voltage input
- 1x reset
 - voltage input 24VDC
 - non-voltage input

BASIC VERSION

- excitation supply

OPTIONAL

- 2 LIMIT OUTPUTS

FUNCTION

- TIMING from operative input signalu
- DISPLAY of timed value
- User can choose the reaction on input signal
- ALL DATA are saved in EEPROM
- RESET (zero values) of timed value
- CHOICE of timing down (COUNT DOWN)
- CHOICE OF INPUT SIGNAL
 - rreaction on rising edge (from log. "0" to log. "1")
 - rreaction on descending edge (from log. "1" to log. "0")
- CHOICE OF INPUT SIGNAL DURATION by user 0 - 99.99 s
- TWO LIMIT INPUTS adjustable by user
 - direct or indirect function of relays
 - time hysteresis adjustable by user
 - reaction of limit when it reach its value (stop or continue timing)

DECRPTION

Digital CPU controlled relay **DCP 02** is use to:

- **timing from input logical signal**
- Timing form input signal proceed due selection of input **reaction type** on input signal from the moment its connected :
- permanent log 1(0): device timing, without input signal: timing is stoped
new permanent log 1(0): device is reset and timing again
 - device is timing only on valid log. levelo (otherwise stoped),
rreset iis provided by RST contact (ex. duration of some process)
 - device starts timing on **first log. edge** and the timing continuous without
care of log. input , only the RST stops and clear timing
 - permanent log 1(0): device timing, change of log.level: device clear and
stops
new permanent log 1(0): device timing again

When the timed value is bigger than 99hour 59min 59secs device automatically clear a display flash. Device timing farther but display still fash , flashing display is giving you an information of timing overflow.

Device could be reseted in two ways, 1) by front panel buttons or 2) by external RST input (ex. button connected to the terminal strip). By this RESET the value on display is cleared.

There are four buttons sitauted on the front panel of digital process monitor w hich are determined to **SETUP all functions.**

All **settings** are saved in EEPROM memory

Digital process monitor is built into instrumental box, which is indended to panel mounting into switch board. Terminal strip is located on rear wall of the unit.

There is a red display with standart luminous intensity in the standard model. Optionally the device can be supplied with the red display with increased luminous intensity, with green display.

TECHNICKÉ ÚDAJE

DISPLAY	99h 99m 59s red LED - 14.2 mm
POWER SUPPLY	24 VAC or 24 VDC : -15% / +20%
POWER CONSUPTION	3.2 VA : basic version
integrated fuse	+0.7 VA : 2 limit outputs
T 500 mA	
INPUT RESISTANTE	12 kOhm
LOGICAL INPUT	log " 0 " : 0 - 5 VDC
LEVEL	log " 1 " : 11 - 30 VDC
DUR. INPUT PULSE	0 - 99.99 s
OUTPUT CONTATS	two SPDT contacts; 230VAC ,5A
LIMITS L1, L2	free adjustable in all range
LIMITS HYSTERESIS	time : free adjustable 0 - 299.9 s (step
FUNCTION of contacts	direct or inverse: user selection
EXTERNAL RESET	duration: min. 55 ms
PANEL CUTOUT	91 H x 44 W mm
DIMENSIONS	96 H x 48 W x 85 D mm (without terminals)
ENCLOSURE	IP 40
CONNECTION	term.strip: max cross-section of wires 2.5
WEIGHT	270 g : max.equipment (4 limits, E.S.,AO)
STABILISATOIN	5 minutes
OPERATING TEMP.	0 - + 50 °C
OPERATION MODE	continous
EMC due	due EN 61000-4-2,3,4,5,6,8
standart	due EN 55081-1
VF array	max. error 0.1 % (for unsrefed wires)

Notice:

- power supply is **galvanically isolated** from:
 - input signal
 - output signal
 - excitation supply (e.g. sensor)
- device can be connected to AC or DC power supply without any consideration when DC is used, the polarity is unimportant.
- safety requirements for electrical equipment
 - due EN 61010-1 + A2
 - class II

IDENTIFICATION CODE

DCP 02 - . . .
 a b

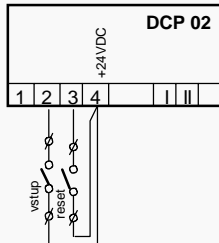
a	power supply	1 24 VAC +/-20% or 24VDC
b	limit outputs	0 without limit output
		1 2 limits : SPDT contacts

ORDERING EXAMPLE

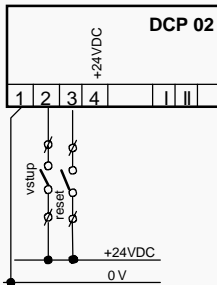
DCP 02 - 11
 - relay output: 2 limits

EXAMPLES OF INPUT CONNECTIONS

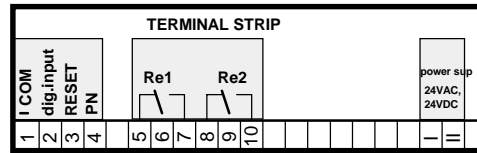
A. Non-voltage input + external RESET



B. Voltage input + external voltage reset



WIRING DIAGRAM



LEGEND

- strip 1 common "-" COM vstupu (DI)
- strip 2 digital input (DI)
- strip 3 external RESET on terminal strip (against COM) (non-voltage contact)
- strip 4 excitation supply (24 VDC ,30 mA stabilizovaný)
- strip 5 - 10 relay outputs
 - 5, 6, 7 relay Re1 (limit L1)
 - 8, 9, 10 relay Re2 (limit L2)
- strip I, II, power supply

DISPLAY BOARD - setting elements

