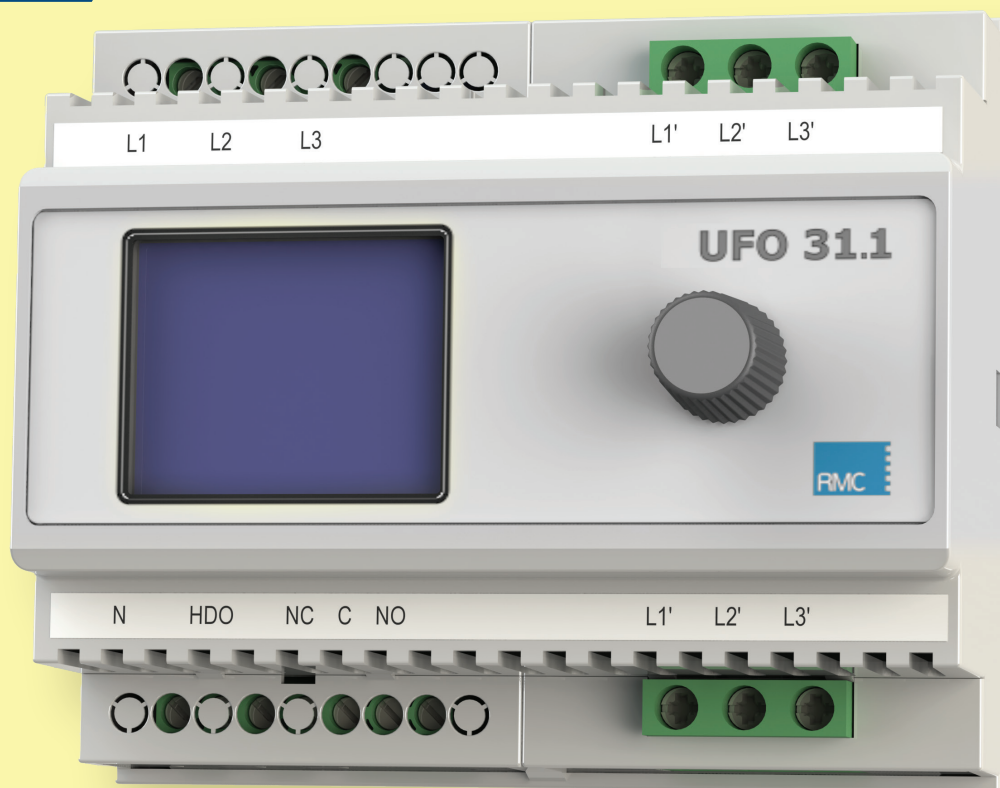


## UFO 31.1



### Funkcie:

- Voltage and frequency protection in 1 or 3 phase photovoltaic system
- Simple, fast and reliable setting of parameters thanks to a rotary encoder with a built-in button
- Full color screen allows the device show settings and statistics at a glance
- Pre-set profiles from the major electricity distributors as well as the ability to configure voltage and frequency protection levels and shut-down times yourself
- Password protected settings
- Partial screen darkening for lower power usage. If a defect is detected, the screen will set itself to full brightness
- Input for remote control of connecting FV system by connecting N from a HDO system receiver
- 3 built-in 16A/250V power relays. No need for an external solution
- Built-in helper relays for remotely displaying or indicating connection state of FV system
- 100-277VAC supply voltage, power consumption under 5W
- Single phase measurement range: 100-295VAC, 3 Phase: 170-520VAC
- Option of 1-3 degrees of protection



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- Supply voltage 100-277VAC, 45-65Hz, power consumption < 5W
- Range of measured ULN voltage: 100-295VAC, ULL: 170-520VAC
- Precision  $\pm 0.5\%$ , range 100VAC- 290VAC RMS
- Measuring L1, N frequency: 41.67-65Hz  $\pm 0,5\%$
- Uncertainty of measurement 0.4%, 64000 samples per 50hz period at every measuring input
- Power supply terminals L1, N
- Measurement terminals L1, L2, L3
- Input impedance of measuring input L1, L2, L3: 940k Ohm
- Switching terminals L1', L2', L3' galvanically separated from L1, L2, L3
- 3 degrees of protection, single or 3 phase
- Configurable switching delay: 1-50 minutes (while testing in service mode with accelerated switching)
- Power switching relays
  - AgSnO2 contacts
  - Constant resistive load 16A/250VAC
  - Maximum switching power per contact 4000VA
  - Maximum switching current per contact 25AAC
  - Mechanical endurance  $2 \times 10^6$
  - Electrical endurance 20A/250VAC ( $\cos \phi = 1$ )
- Auxiliary switching relay
  - AgSnO2 contacts
  - Constant resistive load 6A/250VAC, 24VDC
  - Maximum switching power 1505VA/144W
  - Minimum switching power 100mA/5VDC
- Operating temperature -20°C up to +50°C
- Storage temperature -30°C up to +70°C, air humidity up to 90% (non-condensing)
- IP20 protection
- Overvoltage category III
- Dielectric strength 4kV, 4kV burst resistance, 2.5kV surge on all inputs in accordance to STN-EN 61000-6-2
- Working position vertical on DIN rail
- Cross section of connecting wires:
  - Power relay terminals: solid wire 6mm<sup>2</sup> wire with 4mm<sup>2</sup> crimp end.
  - Other terminals: solid wire 2.5mm<sup>2</sup> wire with crimp end 1.5mm<sup>2</sup>
- DIN rail mounting
- Dimensions of 6 modules, 105x90x75mm

## Norms

match:	zákon 56/2018 Zz
metrology:	STN EN 61000-4-30
protections:	STN EN 50549-1, STN EN 60255-1
safety:	STN-EN 61010-2-201, STN EN 60664-3
EMC:	127/2016 Zz, 331/2019 Zz, STN EN 61000-1-2, STN EN 61000-6-1, STN EN 61000-6-3, STN EN 61000-3-2,

