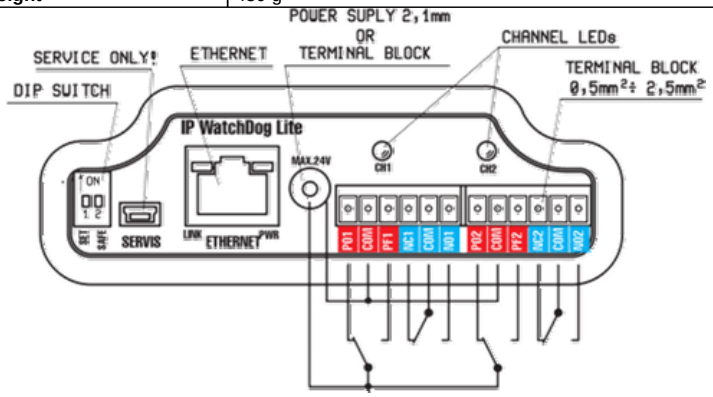
WatchDog is a rebooter intended for monitoring Ethernet devices provided by ICMP ping function. By the means of this function it can RESET up to two monitored devices, such as servers, routers, access and security systems.

Technical specifications

Ethernet port	
+ Interface	RJ45 (10BASE-T) – 10 Mbit or 10/100 Mbit network compatible
+ Compatibility	Ethernet: Version 2.0/IEEE 802.3
+ Supported protocols	IP: ARP, TCP/IP, NVT, RFC2217, UDP/IP, TIME, NTP, SNTP, DAYTIME
Relay contacts' ampacity	
+ DC voltage	max. 30V / 1A
+ AC voltage	max. 125V / 0,5A
LED Status indicators	
+ POWER (green)	Power on
+ LINK & Activity (green)	Ethernet interface active
+ Channel (yellow)	Channel in a Reset state.
DIP SWITCH configuration	
+ DIP1 - RS-232 Setup	ON = Service mode (for service purposes only) OFF = Normal operation
+ DIP2 - Security	ON = Securing TCP setup with user name and password (if set) OFF = No security
Environmental conditions	
+ Operating temperature	-5 to +50 °C
+ Storage temperature	-5 to +75 °C
+ Humidity	5 to 95 %
Environment parameters	
+ Operating temperature	-5 to +50 °C
+ Storage temperature	-5 to +75 °C
+ Relative humidity (non-condensing)	5 to 95 %
Other parametrs	
+ Time synchronizat ioninterval	1800 s
+ Voltage	12-24 V/ 500 mA AC/DC - coaxial power connector
+ Mounting method	mere box
+ Dimensions	35 x 101,5 x 76 [mm] (H x W x D)
+ Weight	450 g



Terminal board description		
Pin	**Power**	**Function description**
PO	*Power ON*	In the idle state this pin contains power supply of the IP Watchdog – axis of the power connector
PF	*Power OFF*	In Reset mode this pin contains power supply of the IP Watchdog – axis of the power connector
NC	*Normally Close*	In Idle state this pin is connected with appropriate COM pin
	Normally	In Reset state this pin is connected with

DIP switch description	
DIP 1	**ON** = Service mode (for service purposes only) **OFF** = Operation mode
DIP 2	**ON** = TCP Setup mode security **OFF** = Without security

Other connectors	
	Coaxial connector for power supply of IP WatchDog Lite or some monitored devices, Power

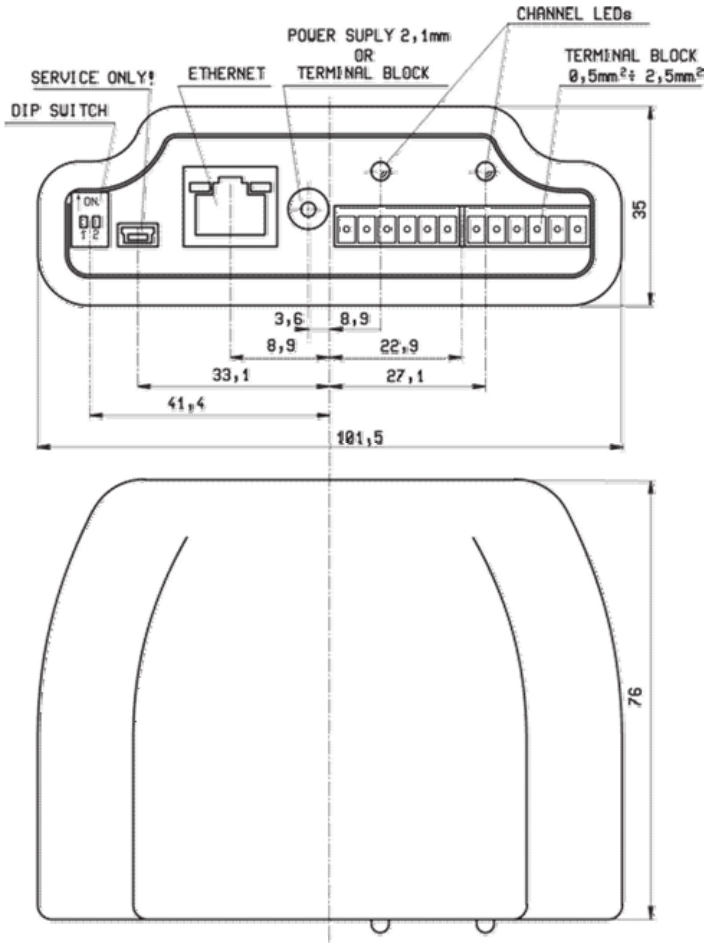
NO	*Open*	appropriate COM pin
COM	*Common*	Common pin - in case of switching contacts (blue fields) connected to relay armature - in power connectors (red fields) the second part of the power supply – casing of the power connector

Power	supply using a feeder of the monitored device can be realized if it complies with the maximum voltage for the IP Watchdog Lite
System	For service purposes only

Note: *The relay power connectors are connected directly to a power connector of the IP Watchdog Lite. The internal construction allows using both AC and DC feeder.*

Mechanic dimensions

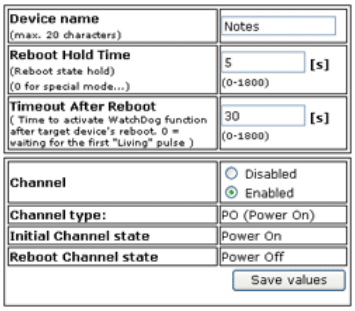
The device is situated in a plastic box.



- Standardly the box contains rubber stands.
- Further you can order a removable holder for DIN molding, that is mounted from below in the centre of the plate.

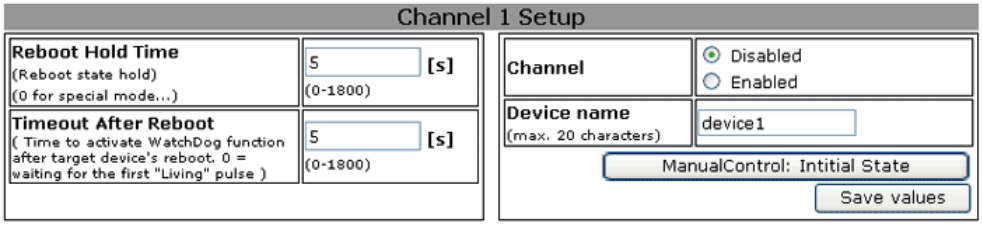
Description of accessories that can be ordered

Common channel functions



- **Device name** – Makes orientation easier when configuring channels and solving the problems with the monitored device. It can contain at most 20 characters.
- **Reboot Hold Time** – duration of the Reset state. Allows setting time when the channel/relay stays in reset state (manual or automatic). Duration can be set from interval 1-1800 seconds. If this parameter is set to “0” then the Reset state lasts until the next refreshing impulse comes. This mode is suitable for activation of the backup device or identification of the error state using other signalization means. More information can be found in the Reboot Hold Time paragraph of the chapter “Application hints”.
- **Timeout After Reboot** – time interval that IP WatchDog waits before causing other Reset after previous one (or after first launch of the device), if monitored data are not received. The Interval can be from range of 0-1800 seconds. The “0” value causes device to wait for first incoming data from the monitored device.

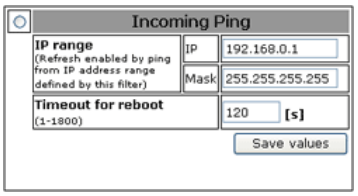
- **Channel enabled/disabled** – enables/disables a channel.
  If the channel is Disabled, the additional ***Manual Control*** button will be available above the ***Save values*** button



Parameters of monitored functions

Incoming Ping

IP WatchDog Lite awaits the incoming ping from monitored device in the configured parameters. The following parameters can be configured:

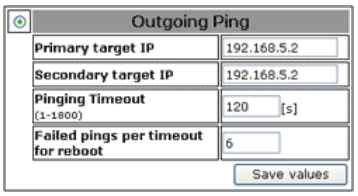


- **IP range** – range of IP addresses, defined by the IP and mask, which the incoming PING will be accepted from.
- **Timeout delay for reboot** – interval from the range of 0-1800 sec (0 = disabled), that IP Watchdog waits for PING before causing RESET.

Note: *To prevent overloading network and monitored devices it is recommended not to use higher frequences of incoming ping than 3 within 60 seconds.*

Outgoing Ping

IP WatchDog Lite sends the PING command to a specific IP address in specific time intervals and awaits response. The following parameters can be configured:



- **Primary target IP** – primary IP address, where IP Watchdog sends PING and from which it awaits response.
- **Secondary target IP** – secondary IP address, where IP Watchdog sends PING and from which it awaits response, if the primary target does not respond.
- **Pinging Timeout** – interval between individual sent pings from the range of 0-1800 seconds. (0 = disabled).
- **Failed pings per timeout for reboot** – number of allowed failed PINGs needed to cause RESET.

Note: *To prevent overloading network and monitored devices it is recommended not to use higher frequences of incoming ping than 3 within 60 seconds. Firewall could take it as a "Ping of Death" attack.*