



GENERAL CHARACTERISTICS

The SC-64 annunciator is dedicated for optical visualisation of information fed to its binary inputs as binary signals. Especially indicated signals could be protection operation and trip signals essential for quick assessment of the situation by service departments. The device cooperates with acoustic substation signalling system and is equipped with event recorder. Recorded content can be transferred to SCADA system by fiber optic communication port, RS-485 or by Ethernet network. Cooperation with SCADA system is possible by following communication protocols: ZEG or IEC 60870-5-103, and optional: MODBUS, DNP3 or IEC61850.

MAIN FEATURES

- 64 binary inputs for substation signalling purposes – 64 LED diodes
- 16 relay outputs in order to multiply substation signals
- watchdog contact in order to signal „lack of aux. voltage” or supply module failure
- binary inputs for remote confirmation of visual and acoustic signalling
- standard rack 19” cassette of dimensions 19”/4U/160
- removable front panel with possibility to install in any place
- input/output modules equipped with screw 16-pins plugs
- input signals can be grouped up to 15 signals per group
- possibility to add time-delay (up to 25 sec) for each input signal
- possibility of expansion the device up to 256 signals
- possibility to instal additional relays to multiply output signals
- test buttons for testing special signals: TRIP, failure, AI1, AI2, fire, intruder
- przyciski służą do wykonywania prób alarmowych tj.: Aw, Up, AI1, AI2, PAC, PPOŻ, Włamanie
- possibility to switch off acoustic signalling with “Alarm ON/OFF”
- „Alarm C” button to confirm acoustic signals

TECHNICAL DATA

Rated supply voltage	110-230V DC/AC or other on request
Burden in auxilliary voltage input	<30 VA
Number of inputs (per each cassette)	64-128
Max. number of cassettes	1-4
Insulation	optical
Rated input voltage	Uw=220V DC/AC or other on request
Burden of binary inputs	0,3 W
Time-delay settable range	25s
Time resolution	1ms
Number of communication channels	8
	<ul style="list-style-type: none"> • fiber-optic ST / IEC 870-5-103 • RS485 • Ethernet • USB
Weight	5kg
Ambient temperature	-5 ÷ +40 °C

PRINCIPLE OF OPERATION

The SC-64 substation annunciator is freely programmable device, which indicates occurrence of substation signal by optical indicators. Received signals can be grouped and individually assigned to optical indicators, relay outputs or quitting inputs. Inputs are energized by control voltage. Input pick-up can be programmable delayed with delay time up to 25 seconds. Disturbance optical signalling is realized by blinking light of frequency 2 Hz. Quitting of the optical signals is possible only after quitting of acoustic signals. Sustained signal of disturbance, after blinking mode quitting, is further signalled by continuous light. If quitted disturbance is vanished, the optical indicator blanks. Every acoustic channel (TRIP, Failure, AI1, AI2) can be picked-up by any of disturbance input. Every disturbance input is supported by interlock circuit against excess of data coming from damaged channel.