Overhead line fault indicator Complete solution for on-site and remote indicating types

Local indication IKI-Overhead

- Detection of all typical types of faults in overhead lines
 Short circuits, transients and earth-faults
- Ultra-bright LED indication
 Visibility 360°, even visible in extreme sunlight
- Easy installation and self-test by operation rod integrated indication for correct installation; no special tools required due to integrated torque control indicator with green flag.



Microcontroller-based independent overcurrent-time characteristic; short circuit and earth fault detecting; suitable for high-impedance earth faults via dI/dT detection; inrush-restrain feature; fault-confirmation via switch-off detection with voltage sensor.





Due to high-quality lithium battery (included) and nanowatt technology; non-corrosive housing (without metallic parts).



2015

Torque indicator: open



Torque indicator: closed

Remote indication IKI-Overhead Butler/Radio

Easy installation

All communication components are integrated in IKI-Overhead, thus no additional pole-mounted RTU has to be added for communication.

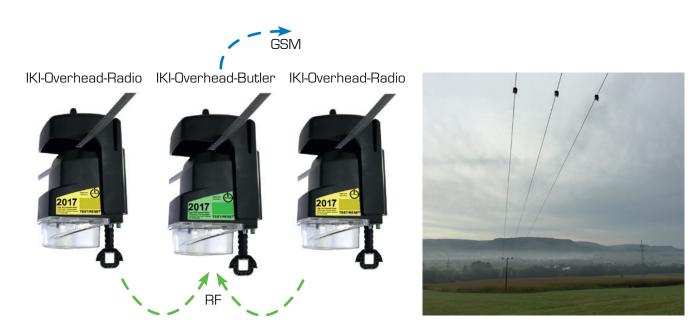
- Easy connection to SCADA via IEC 60870-5-104 or DNP3 Via optional available SMS-Gateway an easy interface to SCADA or PONLINE-Systems is available.
- Broken line detection
 Detects broken overhead lines with no fault current (high ohmic fault)
- Transmission of load-values
 Momentary or mean-values of load current are transmitted cyclically to SCADA
- Remote configuration of settings possible



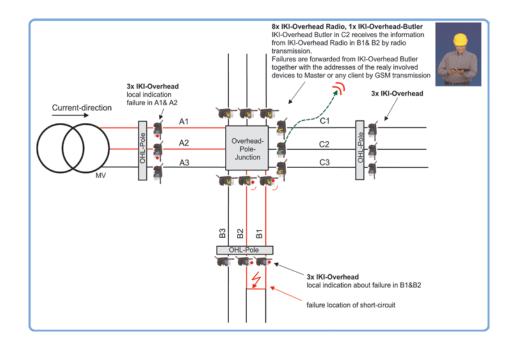


Communication principle

Up to 8 IKI-Overhead-Radio communicate with one IKI-Overhead Butler via short distance RF connection. IKI-Overhead Butler communicates by GSM with PON-LINE-Master or any SMS-client. PONLINE-Master can be linked to any existing SCADA-System



Principle of fault detection with remote indication
 Failures are indicated up to the failure location



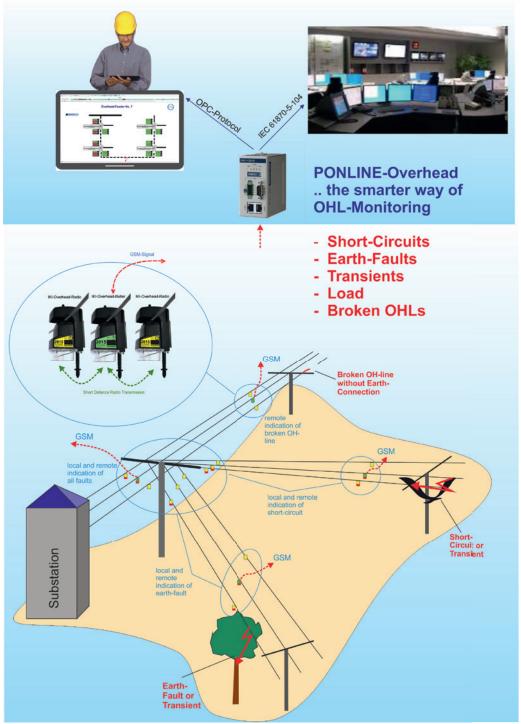


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Complete solution for local and remote indicating types

Showing all relevant status information

Together with PONLINE -System, IKI-Overhead shows you all needed information from your overhead line distribution network including all types of faults and load information:







Overhead line fault indicator Complete solution for local and remote indicating



Technical data

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Power supply:	lithium battery (life time approx. 15 years); for IKI-Overhead Radio and IKI-Overhead Butler battery life-time min. 10 years;	
	Standard replacement battery available off the shelf.	
Pickup current l>>:	Absolute: Automatic, 200, 400, 600 A	
Tiokap dai tenti i>>.	dl/dT: automatic, 20 A, 100 A, 200 A at 50 ms	
Pickup time tl>>:	80 ms, 150 ms	
Reset:	2 h, 4 h, 8 h, manually, automatically after return of minimum primary current	
	3 A for at least 10 s	
Visibility:	approx. 50-100 m at bright sunlight; approx. 500 m at night	
Light intensity:	13 Candela	
Flashing rate per Minute:	30	
Total indicating time	2,880 hrs (120 days)	2017
Dimensions:	$h = 210 \text{ mm}; \emptyset = 130 \text{ mm}$	MANAGE STREET
Installation:	by operating rod (bajonet or ring)	
Self-test:	by operating rod and magnet	
Protection class:	IP 67	•
Rated nominal voltages:	1 kV to 36 kV	
Rated power frequency	50-60 Hz	
Operating temperature:	-30 °C to +75 °C	
Storage temperature:	-30 °C to +80 °C	
Maximum wind load:	70 m/s	
Maximum installation altitude	4,500 m a.s.l.	
Conductor rope cross:	20 mm² to 490 mm², corresponding sectional area: to a diameter of 5 mm to 35 mm	
Short-term max. current	25 kA for < 300 ms	
Housing:	plastics, UV stable CT-Type	
riodaling.	pidatica, ov atable or type	
IKI-Overhead R2 Item no. 2501302	Standard device with local LED indication	
IKI-Overhead R2 Puls Item no. 2501308	Standard device with local LED indication and earth-fault detection via pulsation method for Peterson-Coil networks	
IKI-Overhead Radio Item no. 2501304	Device with short-distance radio connection up to 70 m. Failure information will be forwarded from IKI-Overhead Radio to IKI-Overhead Butler	
		- 6
IKI-Overhead Butler Item no. 2501306	Device with short-distance radio connection for communication with up to 8 pcs IKI-Overhead Radio.	es la companya de la companya della companya della companya de la companya della
10. 200 1300	With additional GSM-Modem to forward information to PONLINE-Master or any	
	SMS-client; GSM-SIM-card not included.	
	Sivis-client, Osivi-Silvi-Caru not included.	8
Mounting		- H
Mounting:	Chandrad times by accounting and a 20 to 2 to 1	-
Item no. 25xxyyzz	Standard type: by means of operation rod with bajonet adapter	
Item no. 25xxyyzz_H001	Clamp-stick type: by means of operation rod with clamp (shot-gun-hotstick)	
		J t
Extended battery life-time	Prolonged battery life-time of IKI-Overhead Butler and Radio with 15 years life-time.	
Item no. 25xxyyzz_H02x		
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