

Fault Circuit Indicator FLOCO

REAL-TIME NETWORK MONITORING

RELEVANT FEATURES FOR SMART GRID SYSTEMS



Fault Location (Embedded GPS)

Load monitoring, with 1.0% of accuracy



Fuse tube drop-out detection

[oV]

Sensor for voltage presence detection



Integration with SCADA systems



Support for automation and planning systems



Regular fuse function

Product tested by KEMA Labs

In compliance with IEEE 495/2007 - Guide for Testing Faulted Circuit Indicators, Floco - Fault Circuit Indicator - has obtained the Type Tests Certificate, issued by Kema Labs.



The right solution for fault location in medium-voltage networks, with fully integration with supervisory systems

O1 Floco reports the events to the Operation Center, through an embedded IoT communication module.

- **02** Fast field crew deployment, reducing service time to clear the fault.
- **03** Maintains the protection function performed by the fuse links.
- **O 4** SAIDI and SAIFI improvements.

100% HartBR Technology







SMARTPHONE ACCESS (Android and IOS)





SELF-POWERED BY HARVEST **ENERGY FROM THE NETWORK**

COMMUNICATION BASED ON IoT NETWORKS



COMPETITIVE PRICE

01

INSTALLED IN CONVENTIONAL **FUSE CUTOUT**

> INTEGRATION WITH SCADA



NO BATTERIES, MAINTENANCE FREE

MAIN FEATURES



IoT Communication

- Bluetooth 5.0 LE (for connection with for Hart **Devices** App)
- Narrowband-IoT (NB-IoT) Onboard SIM Card slot
- LoRa 915Mhz
- Integrated Antennas

ArpeggIO® Suite
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WAN

ArpeggIO® Suite

ArpeggIO is a system that operates as a broker for IoT protocols. It's responsible for integrating Floco to the utility companies' legacy systems.

NS		
6 kV to 35 kV		
0 A to (limited to the fuse link)		
10 kA/170ms (IEEE Standard 495-2007)	BANK	
20 ms	Floco® has ultracapacitors with a lifetime of over 20 years, as an efficient alternative to batteries.	
Configurable	Power autonomy:	
Ultra capacitors	Over 6 hours with the LEDs signaling the fault.	
±1%		
50/60Hz		
-25°C to +55°C		
5% to 100%	<	
IP65	Floco Serial number - 2052326028 Firmware v81.36.2	
≥ 300m (estimated)	Phase-A FUSE OK Last Read 32.5 400A (máx) Average 24.02 400A (máx)	
≤ 150km/h	Privaçãos Votage	
	6 kV to 35 kV 0 A to (limited to the fuse link) 10 kA/170ms (IEEE Standard 495-2007) 20 ms Configurable Ultra capacitors \pm 1% 50/60Hz -25°C to +55°C 5% to 100% IP65 ≥ 300m (estimated) ≤ 150km/h	

With Hart Devices App it's possible to access FLOCO, through Bluetooth, for: Local current monitoring

- Event log analysis
- Check voltage presence
- Configuration and IoT network status

Hart Devices App for Floco® **Configuration and Monitoring** www.adriley.com



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