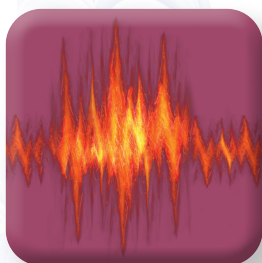




**Advanced and  
Innovative Solutions**



## Line-Log™ Bidirectional MV Load Logger

The Line-Log™ is a distribution line monitoring system designed for high accuracy bi-directional current measurements. This system enables qualification and improvements with load profiling and balancing of your distribution system. This unique and compact instrument offers large internal memory with several months of recording, Wireless communication, Hybrid power harvesting for continuous and autonomous operation and the design is Partial Discharge Free! The Line-Log™ is the perfect tool for accurate tracking of load profiles on multiple circuits.

### ADVANTAGES

- ⚡ Easy installation with a hotstick
- ⚡ Large internal memory
- ⚡ Power Harvest technology
- ⚡ Energy backup for low line current situations
- ⚡ Wireless data transfer
- ⚡ Partial Discharge Free design
- ⚡ Measurements down to 1 Amp
- ⚡ Designed to meet with IEEE-495:2007

### DURABILITY

Today's distribution grid reliability is a necessity. The ability to monitor the current of any line should be easy to do.

The Line-Log™, a cost-effective solution focused on ease of use. With its Partial Discharge free design Line-Log™ system delivers durable and reliable performance overtime. At ndb Technologies, Partial Discharge phenomena are taken seriously.

Also, the housing is made of a high quality composite material especially chosen to prevent degradation under UV light exposure.

### OPERATION

The Line-Log™ system is an easy to install/easy to use low maintenance current monitoring system. Its deployment can easily be completed in few minutes using a simple hot stick.

Its internal power harvesting circuit allows autonomous monitoring. In case of very low line current events, the Line-Log™ continues to operate normally, thanks to its energy backup system powerful enough for multiple days.

The Line-Log™ settings and recording data are easily accessible using its wireless connection technology, even from a distance greater than 30 meters (100 feet). Planning of using it in extreme cold/hot/humid conditions? No worries! The Line-Log™ can operate in any conditions as its design allows operation from -40°C to 60°C (-40°F to 140°F).

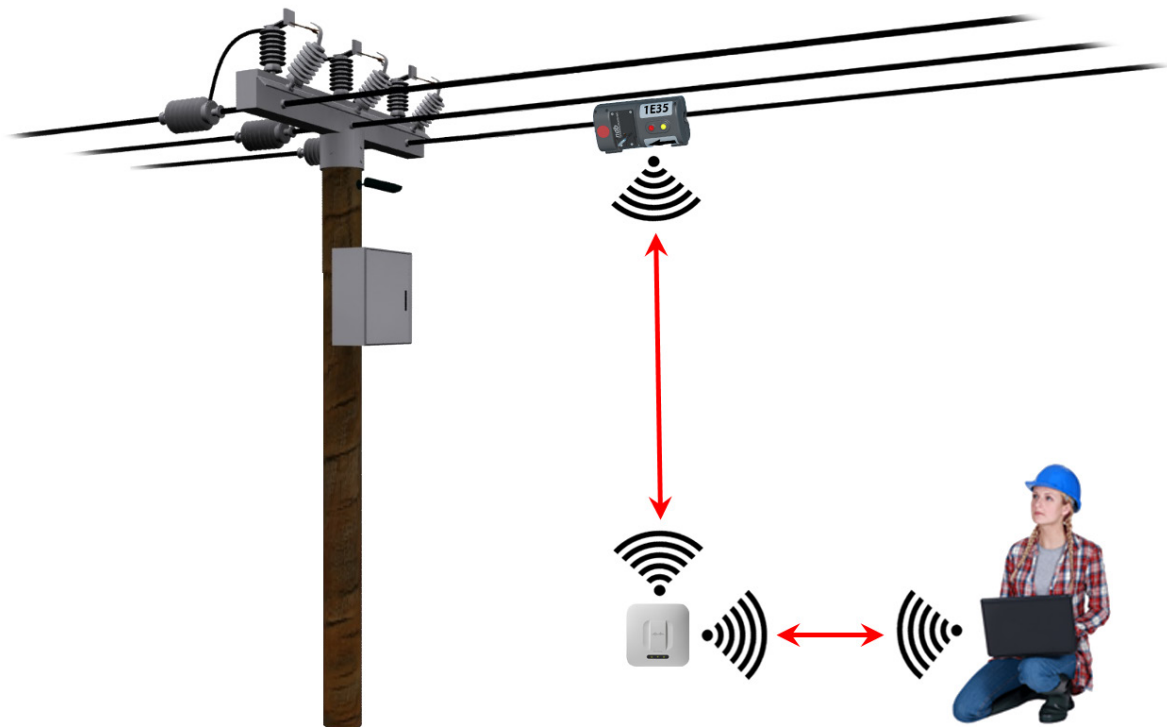


**Line-Log™**

**Bidirectional Load Logger**

## MEASUREMENT SPECIFICATIONS

<b>Measurement Min</b>	1A	<b>Data format</b>	XML and CSV
<b>Measurement Max</b>	1000 A	<b>Internal Memory</b>	9 months (15 min intervals)
<b>Accuracy &gt; 3A</b>	± 1% rdg	<b>Measurement intervals</b>	Configurable, 5, 15, 30, 60 min
<b>Accuracy &lt; 3A</b>	± 3%	<b>Operating Temperature</b>	-40°C to 50°C
<b>Resolution</b>	0.1A	<b>Clock accuracy</b>	3ppm (approx 7 sec per month)
<b>Nominal voltage Min</b>	2.3 kV (phase to neutral)		
<b>Nominal Voltage Max</b>	up to 50 kV (Phase to Phase)		
<b>Sampling rate</b>	7 KHz		
<b>Monitoring</b>	100% of cycles		
<b>Bidirectionnal current</b>	Yes		
<b>Pos and Neg RMS current in data (separated values)</b>	Yes		



The Line-Log™ system allows easy data transfer to a Windows computer using a battery operated Wi-Fi access point.

## MECHANICAL SPECIFICATIONS

<b>Cable diameter Min</b>	5 mm (0.197 inches / AWG 5)
<b>Cable diameter Max</b>	32 mm (1.26 inches / 1500kcmil)
<b>Installation mean</b>	Shotgun type hotstick
<b>Enclosure</b>	UV stabilized Enclosure
<b>Weight</b>	3 kg
<b>Dimensions</b>	270 x 151 x 157 mm
<b>Visual Indicator</b>	Heart beat proportional to current level. Communication connectivity indicator
<b>Visual Current level indicator</b>	$< 5A = 1$ heart beat per 20 sec $5-14A = 1$ heart beat per 16 sec $14-39A = 1$ heart beat per 8 sec $39-108A = 1$ heart beat per 4 sec $108-300A = 1$ heart beat per 2 sec $> 300A = 1$ heart beat per 1 sec
<b>Holding mechanism</b>	Double action squeeze mechanism, firm hold on cable

## CONNECTIVITY SPECIFICATIONS

<b>Wireless standard</b>	Wi-Fi
<b>Wireless range</b>	45m (150 ft)
<b>Wi-Fi security</b>	WPA2
<b>Wired</b>	USB
<b>Licence-free connectivity</b>	Yes
<b>Transfer Time</b>	43 seconds for a 1 week log of 15 minutes recordings
<b>OS (Configuration software)</b>	Windows (XP, 7, 8)
<b>Reporting feature</b>	export to Microsoft Excel
<b>Communication protocol</b>	Proprietary
<b>Optional WiFi battery operated access point module</b>	Yes

## POWER MANAGEMENT SPECIFICATIONS

<b>Harvesting</b>	Inductively from the line and battery backup
<b>Battery Backup</b>	Yes
<b>Battery autonomy (zero load condition)</b>	$> 2$ days

## CERTIFICATIONS

<b>IEEE-495-4.4.7</b>	Yes - 25KA symetrical and 69KA non-symetrical
<b>IEC-60270</b>	50KV PD Free



**ndb**