

A Clearer View Changes Everything

Change the way you view your network with the VisNet View - the latest evolution of the VisNet Hub for pole-mounted transformers

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 **VisNet®**
From EA Technology

VisNet® View

The VisNet View is EA Technology's latest innovation in low-voltage (LV) network management, and an evolution of our award-winning VisNet® Hub monitoring system.

Introducing the View – and why you need it

Based on customer requirements and industry demands, we are proud to introduce the View, a compact, pole-mounted monitoring device that delivers leading grid-edge intelligence and visibility of overhead LV networks to distribution network service providers.

Just like its ground-mounted predecessor, the View has been designed to push intelligence to the network edge to improve analytical capability and return actionable data insights, supplying market-leading management solutions. Building on the success of the Hub, the View comes with a whole host of new features and benefits.

Now pole-mounted, the device offers a lightweight and compact design with simple-aesthetics. Its unobtrusive profile allows for more discreet deployment in a range of environments, minimising visual impact while maintaining optimal functionality.

The View continues to offer exceptional monitoring of LV energy networks and visibility into network operations, now with enhanced durability and operational assurance that further elevate its performance and reliability.

Engineered for resilience, the device offers more protection against the weather – with UV resistance, and the ability to withstand extreme temperatures, from -30° to 65°, the View ensures consistent performance in extreme environmental conditions.

Designed with an integrated battery backup, this pole-mounted monitoring device features a 'last gasp' capability—capturing and transmitting final data upon power loss while simultaneously triggering an alarm to notify users of the interruption. The system also includes intelligent angle detection, automatically sounding an alarm if pole displacement suggests potential structural damage.

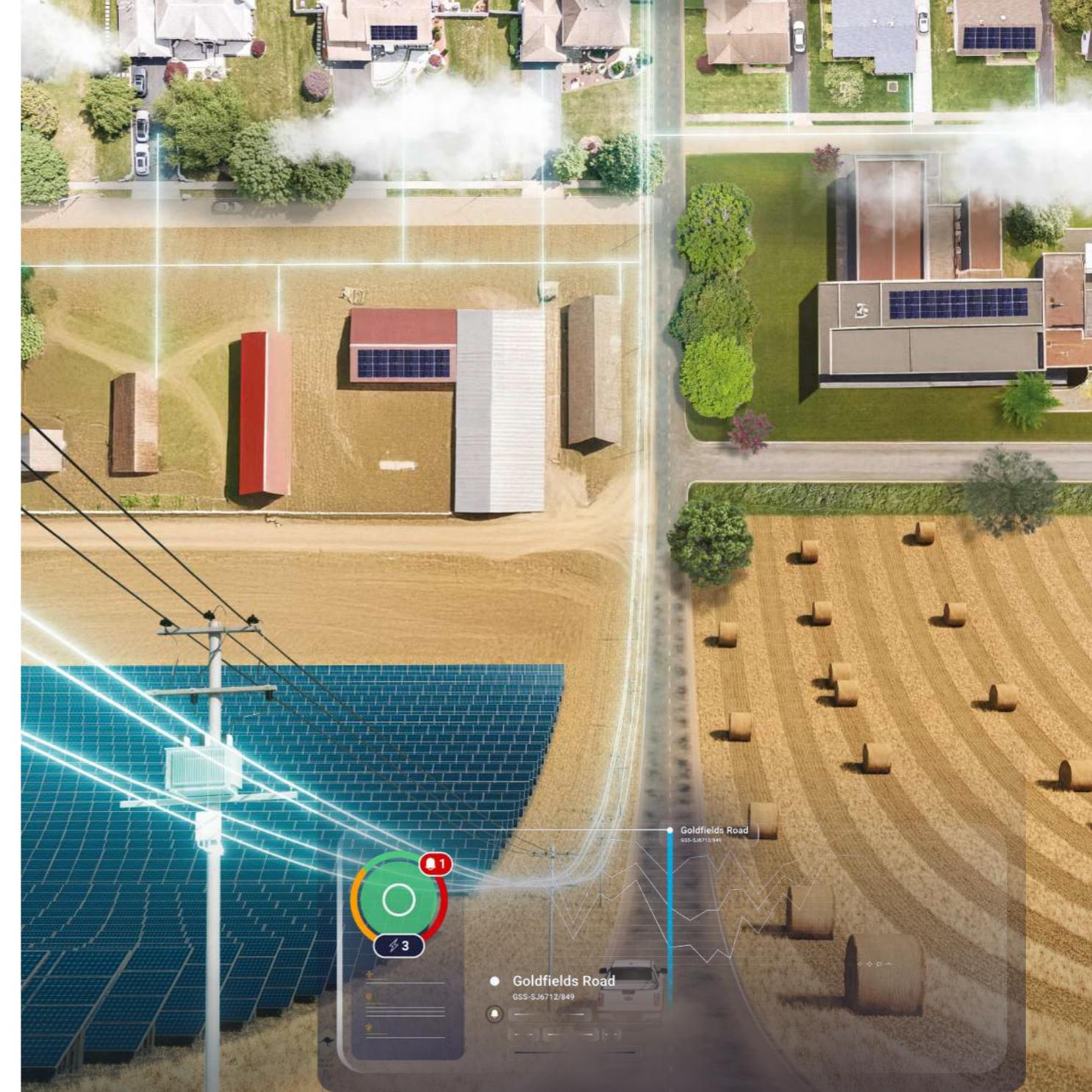
Providing measurement and insights in real time, the View is the more advanced way of reducing/managing power outages and avoiding any associated penalties for overhead networks. The future is clear to see.



Push intelligence to the network edge

Increase visibility

Improve analysis capability



The View - at a glance:

- Digital pole-mounted LV monitoring device.
- Real-time network monitoring of up to 2 feeders.
- 16kHz measurement sampling (waveform capture) with up to 100th harmonics measurements.
- Runs the VisNet App Suite for market-leading data insights.
- Compact, efficient technology.
- Lightweight and simple enclosure design.
- Integrated battery back-up delivering last gasp communication.
- Better weather-resistance - with an operating temperature from -30°C to 65°C and an IP rating of IP66.
- Operational up to altitudes of 2000m.
- Alarms triggered by pole angle changes to detect potential damage.
- Secure wireless connectivity for commissioning at ground level.
- Simple installation no matter what the pole dimension or material - ready assembled with captive currents and voltage cables.

Capability, Connectivity & Compatibility

The View is both cost-effective and convenient - the flexible way to monitor overhead networks data, enhance visibility and maximise utilisation.

Assembled to connect:

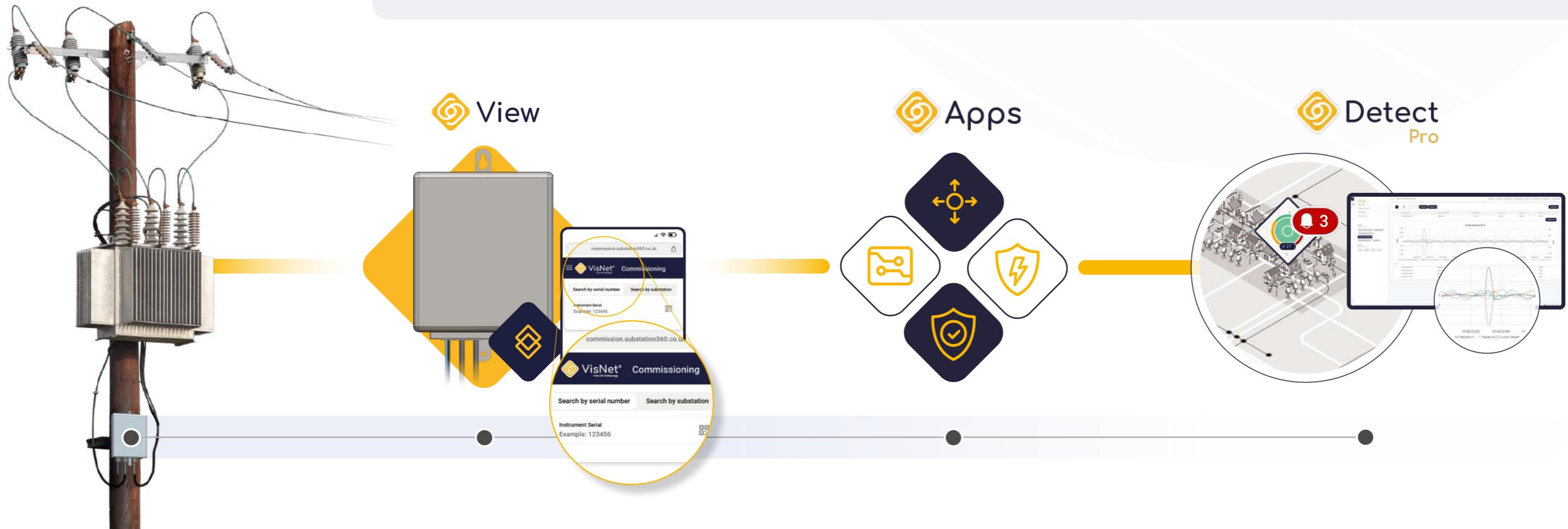
Ready assembled, and with easy single-person installation, the View comes ready for action.

Effortless, wireless and secure commissioning of pole-mounted devices directly from ground level, simplifying installation, maintenance, and configuration tasks.

The default connection comes in the form of an internal LTE (4G) module for communications to cloud platforms for remote monitoring of data. In addition, backwards compatibility ensures the communications can migrate from LTE to 2G or 3G networks where necessary.

Get a clear view:

- LV monitor with advanced on-device functionalities.
- For use on pole-mounted MV/LV Transformers with either 1 or 2 sets of LV feeders.
- **Data capture across:**
 - Phase & Neutral Currents per Phase (RMS).
 - Phase & Neutral Voltages per Phase (RMS).
 - Real, Reactive and Apparent Power per Phase.
 - Total Harmonic Distortion for Voltage and Current Measurements.
 - Pole angle changes.
- **Operating platform:** LV-CAP which runs multiple algorithms (apps) on-device to provide valuable data insights.
 - Use the VisNet Capacity Apps to receive enriched insights into your asset's capacity, such as real-time and historic loading data to deliver automated alerts when circuits and transformers approach, reach, or exceed their operating limits.
 - Host the VisNet Reliability Apps to quickly detect and respond to faults and outages in your network or take a proactive view and see pre-fault data to identify potential faults and outages.
- Secured and encrypted LV-CAP OS environment with OTA software updates.
- Integrates with VisNet Substation360 ecosystem.
- Clear data insights provided through the VisNet Detect Pro user interface.



Combine with Detect Pro for even more visibility

The View is compatible with Detect Pro, our UI platform that enables you to identify network issues quickly – and take action. Visualising insights for a clear analysis of performance, combine Detect Pro with the View and you can truly control your network, 24/7.



Detect Pro:

- Configured to facilitate all VisNet View capabilities.
- Powerful and easy to use software UX.
- Dashboard tailored around relevant app suites.
- Secure access to real time and historic data.
- Developed to make sense of a fleets' worth of LV network data.
- Continuous development and update release cycle with a focus on automating engineering insights.
- APIs available to feed into real-time / archive systems.

Technical Details

Enclosure Size	215 x 250 x 60mm
Total Weight	<1Kg (excluding cable assemblies)
Status Indicator	Two LEDs, one for power, one for comms status
Cables	Unit is assembled with captive current and voltage cable assemblies for ease of installation, in two variants (see below)
External Connectors	None, device is supplied with cables pre-assembled to allow for quick installation and maintained ingress protection
Typical Use	Outdoor (Pole Mounted)
Operating Temperature	-30 to 65 degrees celsius
IP Rating	IP66 (e.g. in accordance with EN 60529-1992+A2-2013)
Intended Product Lifespan	View contains a NiMH pack which lifespan can vary upto 10 years based on its environment
Measurement Sampling	16kHz synchronous sampling with waveform capture
Measurement Harmonics	Up to 100th across all channels
Voltage Channels	Integrated single, split & three-phase voltage measurements
Voltage Accuracy	1% (within operating voltage)
Voltage Range	+/- 700V
Current Channels	Integrated VCS2 Rogowski coils with 50mm aperture (3m length). Single (L1, L2, L3, N) or dual (two sets of L1, L2, L3, N) channels
Current Range (Max)	+/- 30kA
Current Range (Nominal)	30-1,000A
Current Accuracy (Nominal)	1%
Current Channel Insulation	Double insulation to 600V CAT IV (BS EN 61010-2-032)
Operating System	LV-CAP (Linux and Docker based) – updated at customer defined intervals
Software Extensibility	Apps on LV-CAP – subscription to algorithms and data applications

