akribis

DATASHEET

VNET

Vaisala · Authorized Partner

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vNet Power over Ethernet Data Logger Interface



Features

- Eliminates the cost of wiring AC power to each monitored point
- Data loggers can be installed wherever a LAN cable can be run
- Increased data communication protection from power outage because the server room's UPS can provide backup power
- Plug and Play connectivity when using viewLinc Aware function

Wherever reliable network communications and cost are important, more companies are using Power over Ethernet (PoE) devices. Vaisala vNet PoE network interface brings easy connectivity with Vaisala DL series data loggers at a lower cost than alternative networking devices.

The snap-in design streamlines data logger connectivity into a small footprint, eliminating wires between normally separate data loggers and PoE devices. When power and data are carried over the same cable, you can also eliminate the cost of installing an AC power source.

vNet PoE integrates VL and SP data loggers without compromising their high accuracy. It brings greater flexibility and simplicity to the deployment of Vaisala Continuous Monitoring system.

The viewLinc Aware function in viewLinc monitoring software allows you to quickly configure data loggers, alone or in batches. Simply place data loggers in a vNet cradle, connect to a Local Area Network, and viewLinc discovers and configures the data loggers.

vNet PoE interface comes in four models:

- CDL-VNET-P with a fan inside the cradle for data loggers with an internal temperature channel
- CDL-VNET-LP without a fan for data loggers without an internal temperature channel
- CDL-VNET-PC with 15 V output to power external sensors and transmitters; includes internal fan
- CDL-VNET-LPC with 15 V output to power external sensors and transmitters; without internal fan

There is also an option to power the interface with AC. Select the model that fits your application to monitor and record temperature, humidity, CO_2, differential pressure, door switches, and many other parameters.

Technical Data

Measurement Performance

Heating Effect on Measurements	
CDL-VNET-P and CDL-VNET-PC	Temperature rise from electronics (important only for data loggers with internal sensors): < 0.05 °C as seen by the data logger sensor
CDL-VNET-LP and CDL-VNET-LPC	Not to be used for data loggers with internal sensors

Operating Environment

Operating temperature	−25 ... +70 °C (−13 ... +158 °F)
Storage temperature	−40 ... +85 °C (−40 ... +185 °F)
Operating humidity	0 ... 90 %RH (non-condensing and not to exceed a mixing ratio of 38.5 g/kg)

Inputs and Outputs

Ethernet connectivity	IEEE 802.3af (Class 1) [1], bandwidth 10Base-T
Connectivity cable	Category 5/5e RJ-45 connector 1.83 m (6 ft)
Operating voltage [2]	12 ... 30 VDC Plugs into vNet jack labeled 12 V
Output Voltage	
CDL-VNET-P and CDL-VNET-LP	Not available
CDL-VNET-PC and CDL-VNET-LPC	Nominal: 15 VDC Maximum: 350 mW
Power Consumption	
CDL-VNET-P and CDL-VNET-LP	Typical: 625 mW Maximum: 700 mW
CDL-VNET-PC and CDL-VNET-LPC	Typical: 900 mW Maximum: 1.35 W
Power Supply [3]	
North America	12 VDC / 0.5 A max. out 120 VAC in
International	12 VDC / 1.66 A max. out 100 ... 240 VAC in

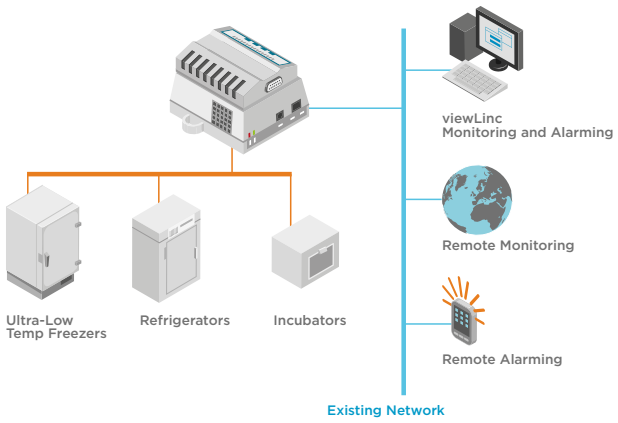
1) Max. PSE power reservation is 4.00 W.
2) Optional for use without PoE.
3) Included but not required when using PoE.

Mechanical Specifications

Dimensions (H × W × L)	43 × 102 × 102 mm (1.7 × 4.0 × 4.0 in)
Weight	180 g (6.3 oz)

General Specifications

Data logger compatibility	v6.00 hardware and higher Includes models VL and SP 1000, 1700, 1200, 1016, 1416, 1400, 2000, 4000
LED indicators	Link, activity, power, data logger communications
Device configuration	HTTP Web Interface PC-based configuration wizard
viewLinc Aware	Requires one vNet to be programmed with the viewLinc server IP address. Other vNets on the subnet will automatically self-configure.
Addressing	DHCP/RARP ARP-Ping Static IP for IP address assignment Net BIOS name
Firmware	Field upgradable firmware
Compliance	
Emissions/Immunity	FCC Part 15 and CE EN 50581:2012 EN 55032:2012/AC:2013 Class B EN 61326-1:2013
Conformity	RoHs, 2011/65/EU WEEE



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