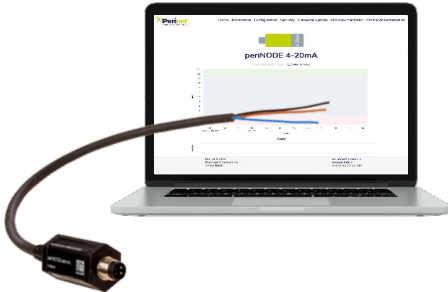


periNODE 4-20mA

Single Pair Ethernet Sensor Adapter for 4-20mA sensors

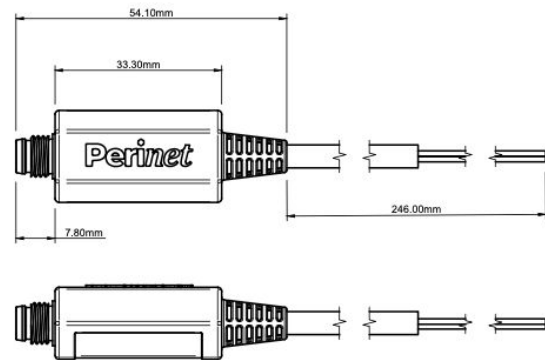


The *periNODE 4-20mA* bridges the gap between sensors and IT infrastructure, transforming analog, passive sensors into intelligent, active network devices. It converts sensor data into information and sends it directly via Ethernet to any IT system or data hub. This seamless integration facilitates straightforward data analysis and processing. Our patent-protected technology also allows users to customize data transfer intervals, optimizing network traffic and preventing unnecessary data accumulation.

Key Features

- Fully operational with One Cable
- Integrated Software Stacks: TCP/IPv6, mTLS, HTTPs, RESTful API
- Integrated WebUI & RESTful API
- Based on sève OS, an Operating System for Things
- Customizable Firmware
- On device value transformation

Dimensions & Pinout



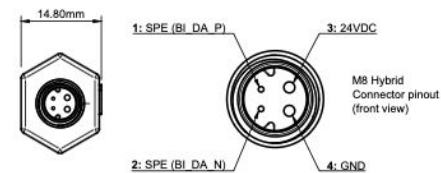
periNODE 4-20mA's dimensions

Interfaces

- 100BASE-T1 Phy (IEEE 802.3bw, IEC 63717-6)
- 4-20mA / 0-20mA analog input
- HTTPs RESTful API for configuration
- Secure MQTT client

Operational Parameters

- Operating voltage: 24VDC input
- Sensor Supply Voltage: 24V output
- Temperature range: -40°C to +70°C
- Power consumption: 0.6W
- Protection Class: IP 65/67



periNODE 4-20mA's connector pinning

Compliance

- CE, REACH
- RoHS 3 (EU 2015/863)
- WEEE (2012/19/EU)

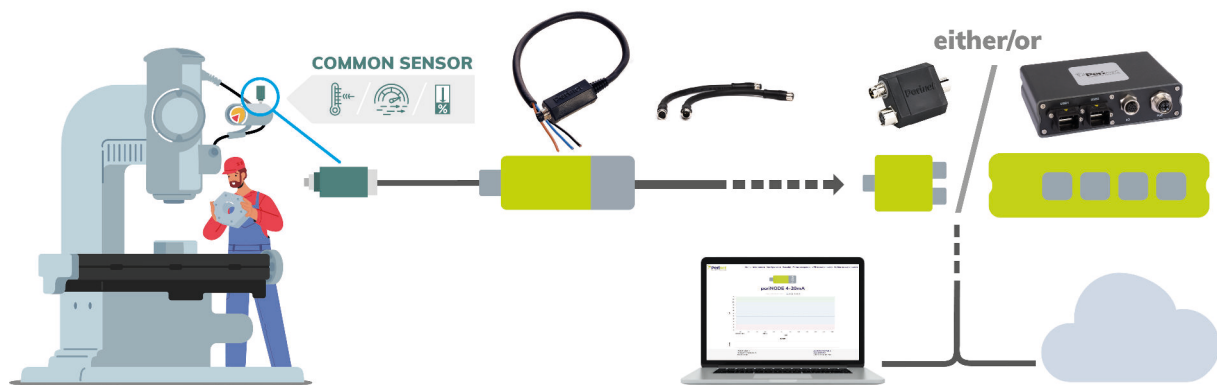
Security

- CRA-ready
- NIST compliant TLS implementation
- Role Based Access Control (RBAC)
- Certificate based client authentication
- AES encryption algorithm
- X.509 certificates & PKIX path validation
- Elliptic Curve Cryptography (ECC)

Software Features

- Integrated HTTP server with TLS
- Integrated MQTT client with mTLS
- Zero-configuration (mDNS and DNS-SD)
- Full TCP/IPv6 communication stack
- LifeCycle Management, remote firmware updates

Typical Application



Typical installation of the periNODE 4-20mA

Ordering Information

Ordering Code	Product Name	Description
PRN.000.021	periNODE 4-20mA	smart adapter for 4 to 20mA signal type
Companion Products		
PRN.000.008	periSWITCH 3-port	3-port hybrid SPE switch
PRN.000.003	periSTART standard	Media converter from SPE to standard Ethernet
PRN.000.017	periLINE 0.2m	Hybrid SPE cable with M8 connectors
PRN.000.025	periMICA	Open modular edge computer
PRN.000.020	periCORE Development Kit	Full featured firmware development setup