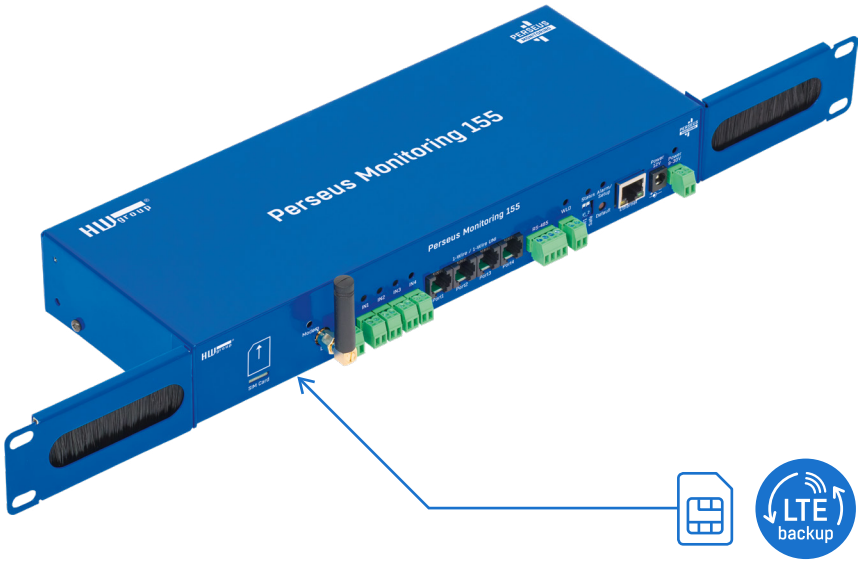
# Perseus Monitoring 155

Perseus Monitoring 155 is a complex 1U solution for a 19“ rack monitoring system in data centers, AV installations, telecommunications, etc. Integrated LTE modem provides backup connectivity and SMS / Call alerts.



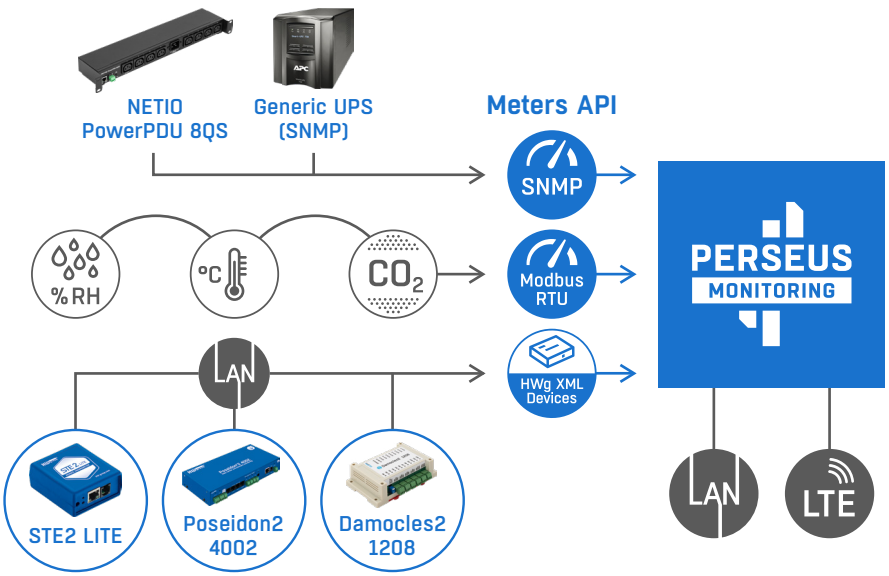

- Integrated LTE modem for backup connectivity and SMS/Call alerts
- Meters API – ability to work with other HWg devices
- Support for 3rd party sensors
- Variables can have multiple conditions and actions
- Remote configuration with SensDesk Technology
- WLD zone input for the sensing cable
- 802.1X central security management
- Local custom scripts in Lua
- Templates repository for 3rd party sensors
- BACnet protocol integration

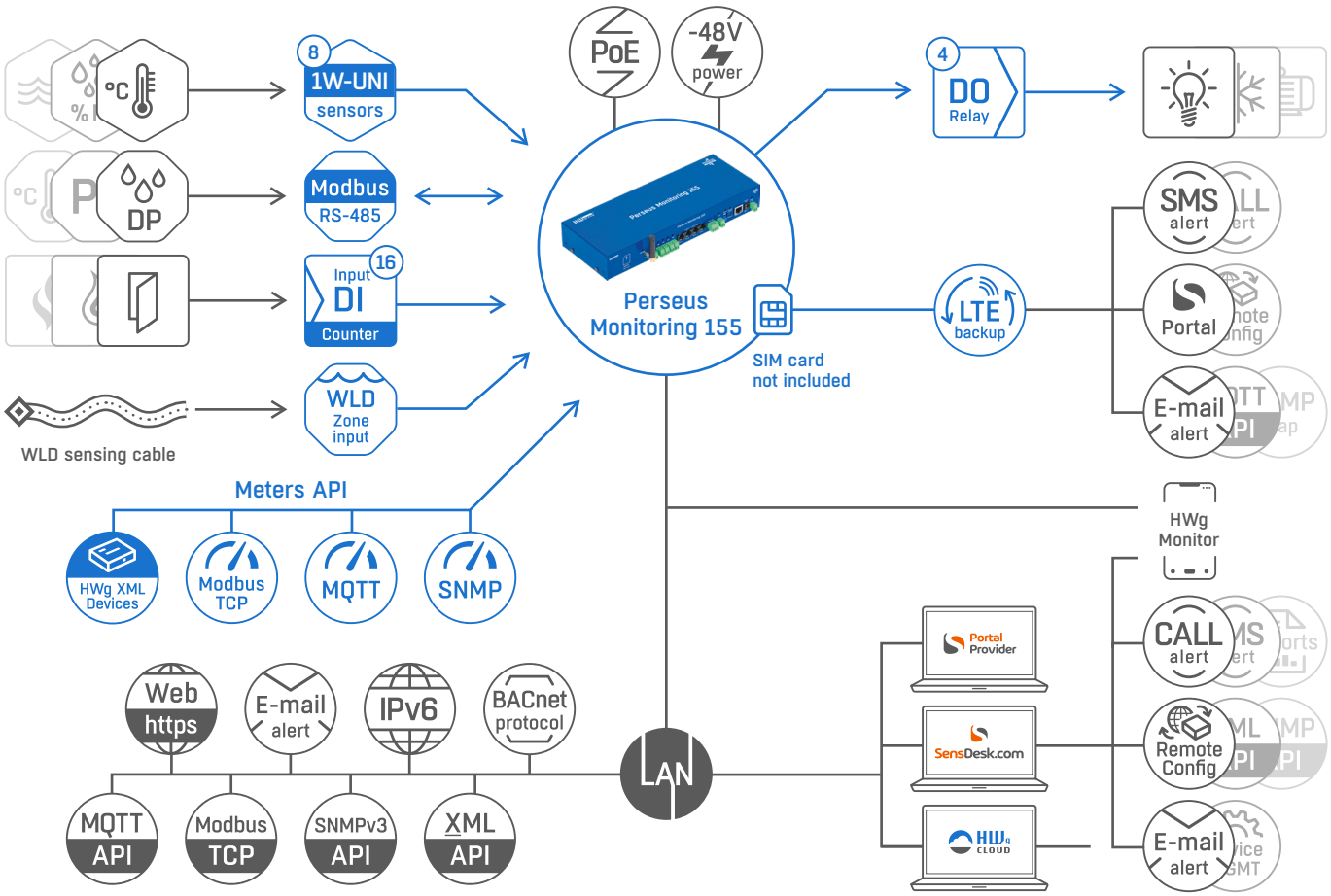
Perseus Monitoring 155 uses LAN as the primary connection and LTE as a backup connection when LAN is unavailable. The device connects external physical sensors (°C, %RH, A, V, ...), DI (Digital Inputs), WLD (Water Leak Detection) zone, DO (Digital Outputs) and 3rd party meters via LAN or RS-485 (Modbus/RTU). All sensor data is analyzed and processed by the Perseus device. There is a limit of 100 meters / 1000 values (variables).

A unique feature of the Perseus family is the ability to connect other HWg devices connected via LAN as external meters. Local conditions, Lua scripting, and calendar help with measured data processing.

Physical RS-485 supports Modbus/RTU meters (R/W), it allows to connect 3rd party devices. Many devices from other vendors such as electricity meters, UPS or GenSet can be connected to Perseus and the SensDesk Technology-based Portal this way.

For email alerting, we recommend to use Portal - it's faster and more reliable in case of LAN / LTE connectivity combination.






## Typical applications

- Critical infrastructure remote monitoring
- Data Center / Single rack monitoring
- Fridge / Freezers monitoring
- Technical room / infrastructure monitoring
- Telecommunication installations

## Alerting

Typical applications include remote rack / server room monitoring and alerting. Several alerting options are supported by Perseus (Email, SMS, Call, SNMP trap, Output switching, etc.), allowing flexible alert setup.

Internal LTE modem can be used for informing the Portal in case of power failure (email / SMS alerting from the Portal). Mobile App can be used to display the status of all connected meters via LAN directly or via SensDesk.com Portal.

| Features | |
|---|---|
| Alerts | SNMP trap, email, SMS / Calls |
| LTE | Global |
| Open API | SNMP, XML, Modbus/TCP, MQTT |
| Professional product | IPv6, SNMP Traps, SNMPv3 |
| Security | Radius - IEEE 802.1X, Admin and user accounts, HTTPs (customer certificate) |

| Interfaces | |
|---|---|
| Sensors | 8× RJ11 port – 1-Wire / 1-Wire UNI |
| Meters API | HWg XML, Modbus/TCP, MQTT, SNMP |
| RS-485 (Modbus/RTU) | 1× 4-pin terminal block (with 12V) |
| WLD | 1 zone for external Water Leak Detection sensing cable A/B |
| DO (Digital Outputs) | 4× DO (relays) |
| DI (Digital Inputs) | 16× DI (dry contact) |

| Technical specifications | |
|---|---|
| Ethernet | RJ45 (100BASE-T) |
| Power | 9-30V (12V, 1.5A)<br>PoE (Power Over Ethernet) supported<br>Telco standard -48V DC |
| Operating temperature | -30 °C to 65 °C (-22 °F to 149 °F) |
| Mechanical | Metal case, 1U / 19" rack, 44×111×290 mm |
| Warranty | 24 months |

| Software / Services | |
|---|---|
| SensDesk.com | Online remote monitoring service.<br>Graphs, alerts, device management. |
| Portal on premise | Standalone individual SensDesk installation |
| HWg-cloud.com | Free of charge portal service |
| HWg Monitor | Smart phone application (iOS, Android) |
| Other software | 3rd party software, HWg-SDK |