PHŒNIX CONTACT

Solutions for process automation

HART

HART
COMMUNICATION PROTOCOL

- HART mux
- HART USB modem

- Access the diagnostic data of your HART instruments via Ethernet
- One HART master per channel for faster polling than traditional serial mux
- HART over wireless can be achieved by integrating our mux with a WLAN Ethernet radio
- Applications for both retrofit and new builds incorporate HART information into your plant asset management system

Signal isolation

- Analog signal convertors
- Analog loop isolators
- Analog set point modules
- Intrinsic safety barriers

- Slim, modern, modular, analog signal conditioners
- Signal conditioning/filtering maintains signal integrity
- Isolate active loops and power passive loops
- Modules available for temperature conversion and limit relays
- Modules available for hazardous locations and safety (SIL) applications
- Modules available with CID2, ATEX, IECEx, EAC, GL approvals

Signal protection

- Power and data protection
- Data protectors with status LEDs
- Hot swappable and pluggable
- State-of-the-art products
- Warranty enhancements
- True CAT 6A POE+ protection

- Protection of critical equipment
- Increased uptime
- Three-stage local and remote functional status indication
- Easy installation and replacement
- Tested and certified to UL and EN/IEC standards
- Robust and reliable protection for high bandwidth signal applications

Process Fieldbus

FOUNDATION

PROFI®BUS

- Foundation Fieldbus
- PROFIBUS PA

- Modular and block-style device couplers with integrated short-circuit protection
- Custom junction box builds for easily deploying field instrumentation via FF/PA couplers
- Redundant power supply options with Ethernet diagnostics and effective cabling solutions for up to four segment installations
- PROFIBUS DP/PA coupler with transparent integration from DP/PA
- Physical layer diagnostics for PROFIBUS PA available via Ethernet and ProfiTrace
- Diagnostics in the field provide a more accurate real-time status of physical layer devices

Networking and communication

- 900 MHz I/O
- 900 MHz Ethernet
- Cellular modems
- Ethernet switches
- Security router and firewall
- I/O systems

- Long distance, high performance, easy wire replacement for I/O
- High bandwidth 200 mW WiFi - wireless communication on both 2.4 and 5 GHz
- Wide array of connectivity networking options
- Communicate with your systems worldwide with a secure VPN connection and free cloud service
- Fast and cost-effective I/O options in IP20 and IP67 suitable for potentially explosive areas

Control

Backbone infrastructure

Visualization

Network security

Backbone network

Control

Connect

Remote access

Cellular

Wireless I/O

Fiber conversion

Ethernet infrastructure

Managed Ethernet

Fiber connectivity

PoE

Unmanaged Ethernet

Wireless Ethernet

Signal integrity

Signal isolation and barriers

Communication and data protection

Signal protection

Signal protection for hazardous locations

Collect

Device connectivity

HART over wireless

HART mux

PROFIBUS PA

PROFIBUS DP