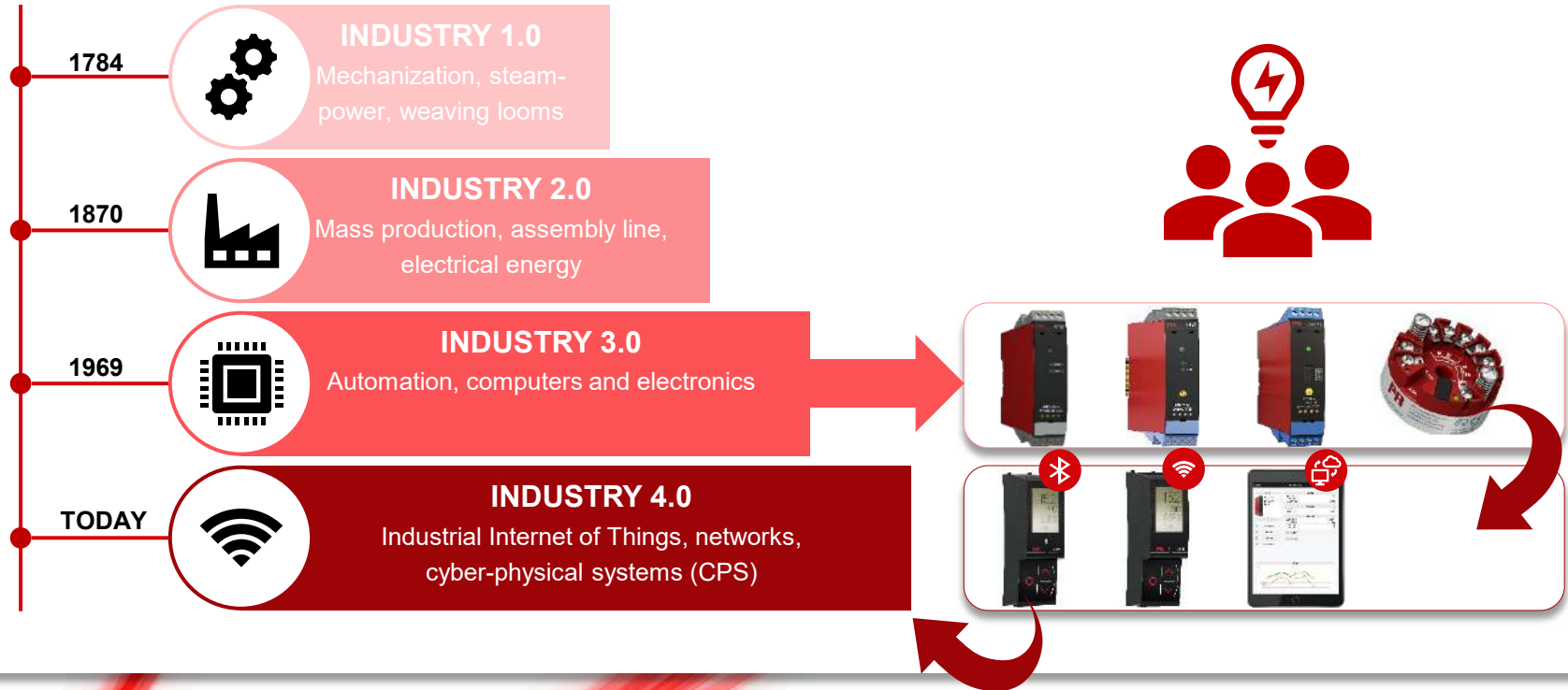


PR 4511 Communication enabler



Industrial revolution

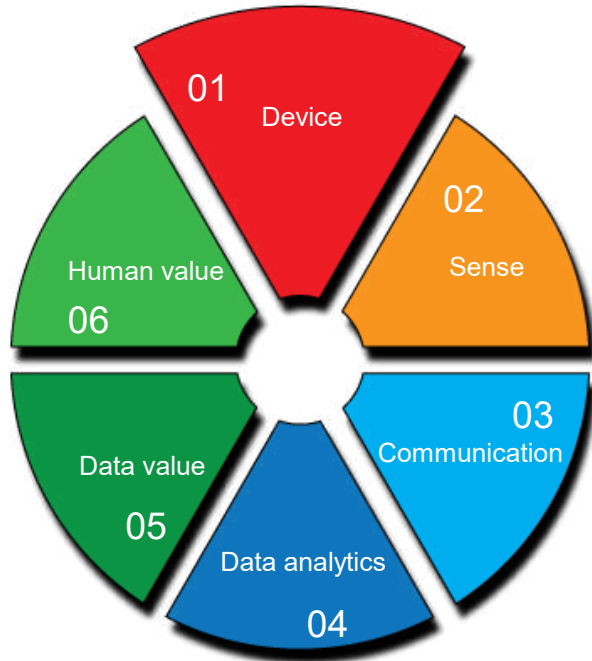


Connecting tomorrow

At PR electronics we are proud to offer **digital solutions embracing tomorrow's technology.**

The PR 4500 series communication interfaces offer digital communication for easy operation and capture of rich data sets, creating the foundation for Industry 4.0 solutions

The Internet of Things – framework



01 **Device connection**
IoT devices
I/O connectivity
Embedded intelligence

02 **Data sensing**
Capture data
Sensors and tags
Edge storage

03 **Communication**
Data transport
Network, cloud, edge
Focus on access

04 **Data analytics**
Big data analysis
Analysis at the edge

05 **Data value**
Analysis to action
Actionable intelligence
APIs and processes

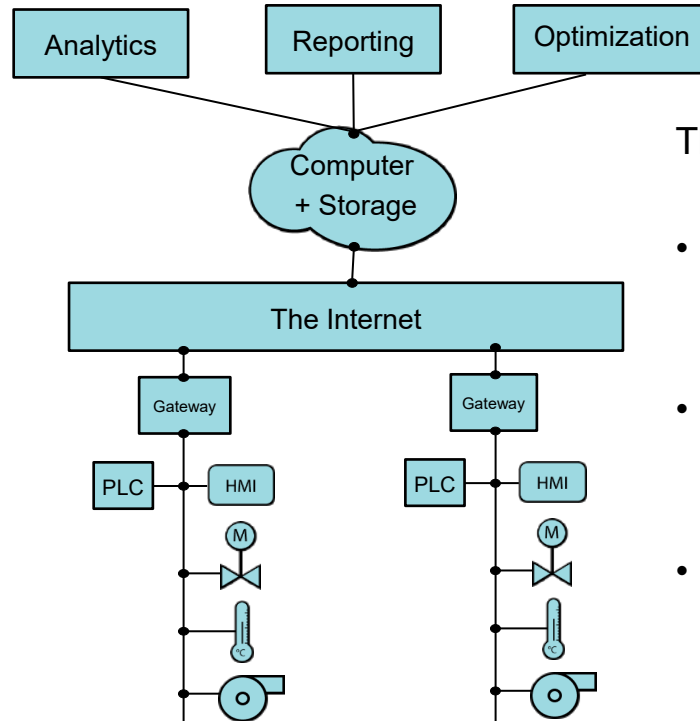
06 **Human value**
Smart application
Stakeholder benefits
Tangible benefits

The Industrial Internet of Things – architecture

Cloud

Network

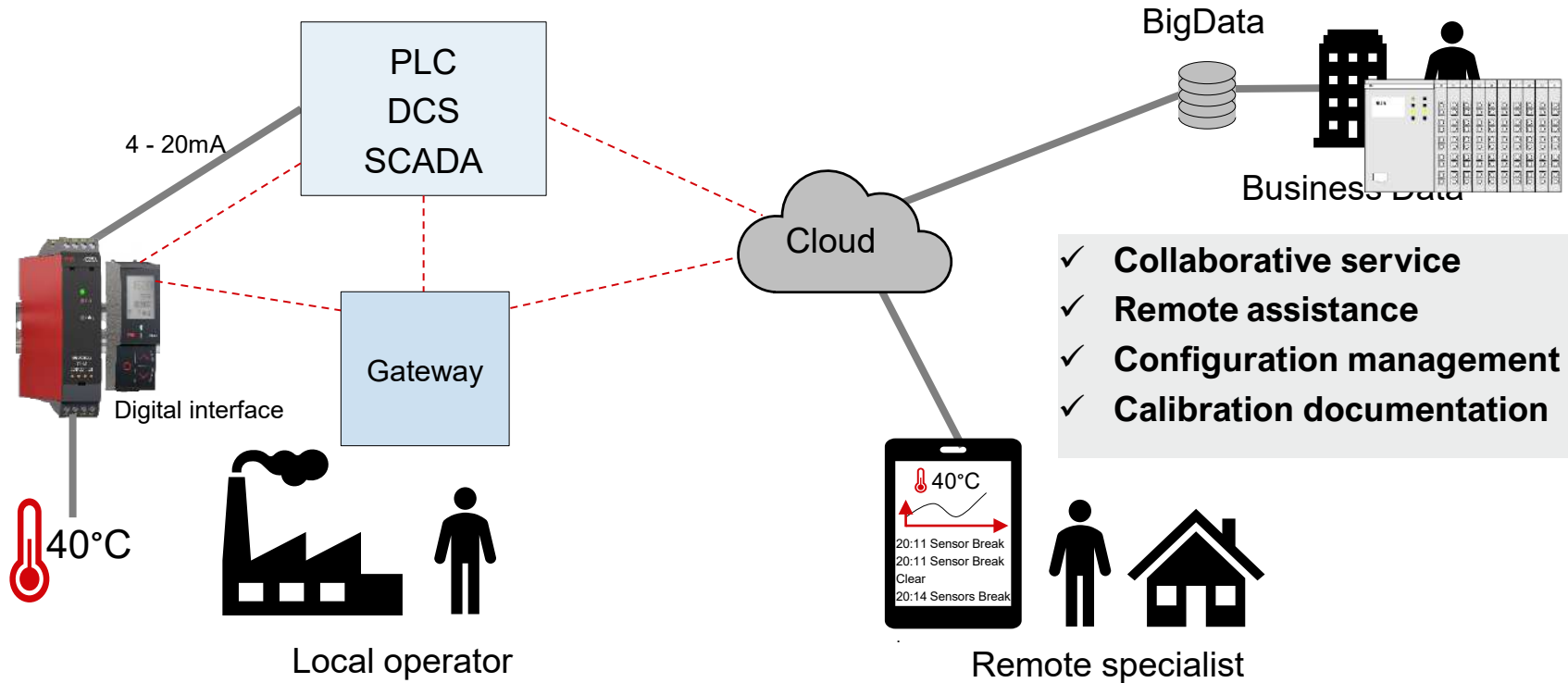
Device Layer



The layered modular architecture of IIoT

- Cloud – service layer for compute and storage. Present information as Human value, reports, HMI
- The networks layer consists of local network infrastructure and the internet
- Device Layer, sensors, actuators, machines

Network Solution – PR 4511 communication enabler



4511 communication enabler

Specifications and features

The PR 4511 Communication interface

4511 display and programming

- Program via local operator interface. Push-buttons and the unique PR electronics menu structure.



4511 digital interfaces

- 4511 Introduces Modbus RTU communication for your PR 4000 and PR 9000 series, easy and cost-effective digital interface





Process view



- Live process value
- Min. 69 available engineering units
- Device output level or tag number
- Device and signal status icons

Program



- Program all parameters
- Easy circular menu
- Calibrate
- Simulate process value/relay
- Load/save configuration
- Password protection

Device status



- Flashing display indicating error
- Error code
- Error help text for easier diagnosis
- Maintains loop integrity

4511 Communication enabler



Feature highlights

- Modbus RTU slave – RS485 interface
- RJ45 connector – easy wiring
- Modbus autoconfigure 2400-115200 baud, 247 addresses
- Accessories for easy daisy-chain cabling, 32 devices
- Up to 100 Modbus registers available
- Works with all future and previously sold PR 4000/9000 series products
- 2.5 kVAC galvanic isolation on the Modbus port

4511 Communication enabler



Rich Modbus read/write parameter sets

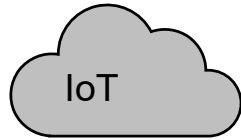
- Process values
- Configuration
- Measurement status
- Error status
- Calibration
- Simulation

Up to 100 device registers available!


(4225: config, process, simulation, misc.)



4511 Applications

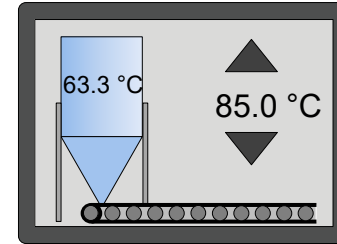
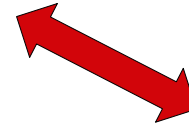
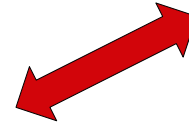
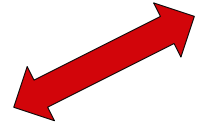
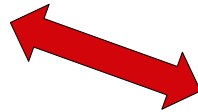


IoT Solutions

Calibration Report 

01.01.2021:03:48AM	- 28.4°C
02.01.2021:03:44AM	- 29.2°C
03.01.2021:03:47AM	- 29.1°C
04.01.2021:03:47AM	- 29.3°C
05.01.2021:03:44AM	- 28.6°C
06.01.2021:03:45AM	- 29.0°C

Online documentation for actual calibration



HMI display



PLC digital integration

10

Thank you for your time!