



ifm Pressure Sensor Webinar

Wednesday 26 August

14H00 PM



Pressure sensor with IO-Link

Precise pressure sensor with temperature monitoring



Sales Engineer - Vaal Triangle

Jannie Claasens

Presenter



Sales Manager - Gauteng

Francois Gey van Pittius

Host



WEBINAR

ifm WEBINAR

A detailed technical drawing of an ifm electronic component, likely a sensor or actuator, shown in a perspective view. It has a rectangular body with a circular feature on top and a mounting bracket at the bottom.

Jannie Claasens

Sales Engineer

The ifm logo, consisting of the letters 'ifm' in a stylized, blocky font, enclosed within a circle.

ifm electronic ZA
112 Sovereign Drive
R21 Corportate Park
Irene Centurion
Phone 012 450 0400
E-Mail: jannie.claasens@ifm.com
Internet www.ifm.com

Agenda

1. Introduction
2. Key Features
3. Sensor Connection - Hard wire
4. What is IO-Link
5. Sensor Connection - IO-Link
6. LR-Device Software
7. Applications
8. Summary
9. Q & A



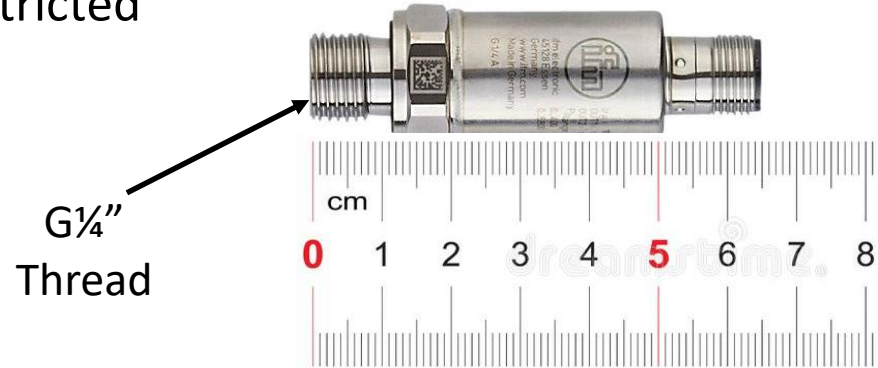
Introducing the PV8*** series pressure sensor

- On most machines temperature and pressure is monitored by using two separate sensors. This innovative sensor reduces wiring complexity as it can monitor pressure and temperature at the same time.
- This sensor can give two separate outputs (switching signal) for pressure and temperature or the actual process value can be transmitted via IO-Link.
- Imagine having a simple hydraulic power pack and the cost saving of reducing the amount of sensors by half?



What are the key features of this product?

- Build in temperature measurement (-40 to 90 °C)
- Measuring cell directly welded to process connection
- Can be used in hydraulic applications or with inert gasses
- Compact housing where space is restricted
- IO-Link
- Two switching outputs



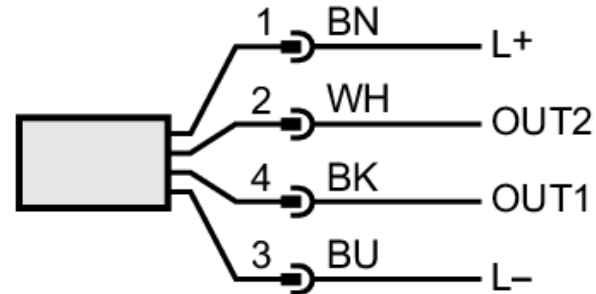
Sensor Connection

Hard Wire:

- OUT1: Switching output for pressure / IO-Link
- OUT2: Switching output for pressure / temperature



M12 Connector





Benefit of measuring pressure and temperature with a single instrument:

- Cost savings
 - Only one sensor is required
 - Only one process connection fitting required
 - Reduced cabling
 - Reduces stock holding requirements for end user

Measurement ranges available:



Part Number	Measurement Range Pressure (Bar)	Measurement Range Temperature (°C)
PV8060	0 ... 600	-40 ... 90
PV8000	0 ... 400	-40 ... 90
PV8001	0 ... 250	-40 ... 90
PV8002	0 ... 100	-40 ... 90
PV8023	0 ... 60	-40 ... 90
PV8003	-1 ... 25	-40 ... 90
PV8004	-1 ... 10	-40 ... 90

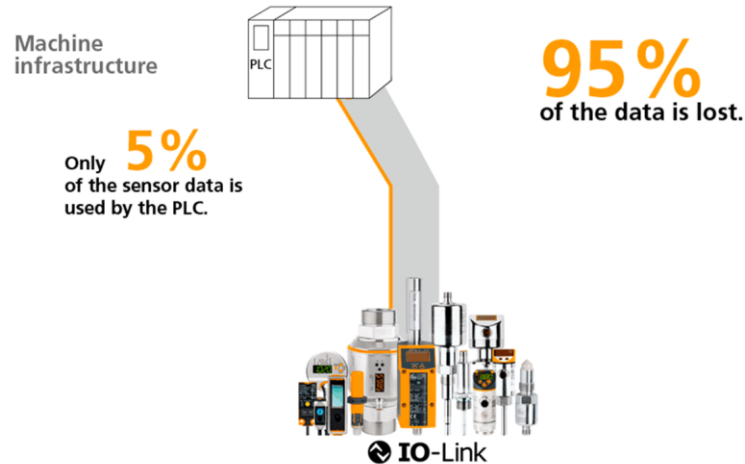


What is IO-Link?

- IO-Link is the worlds first standardized I/O technology for communication with sensors and actuators.
- Over simplified: replaces analogue signals with digital data.
- Can communicate to the sensor (e.g. give it commands) and receive more than just process data from sensor (e.g. diagnostics)

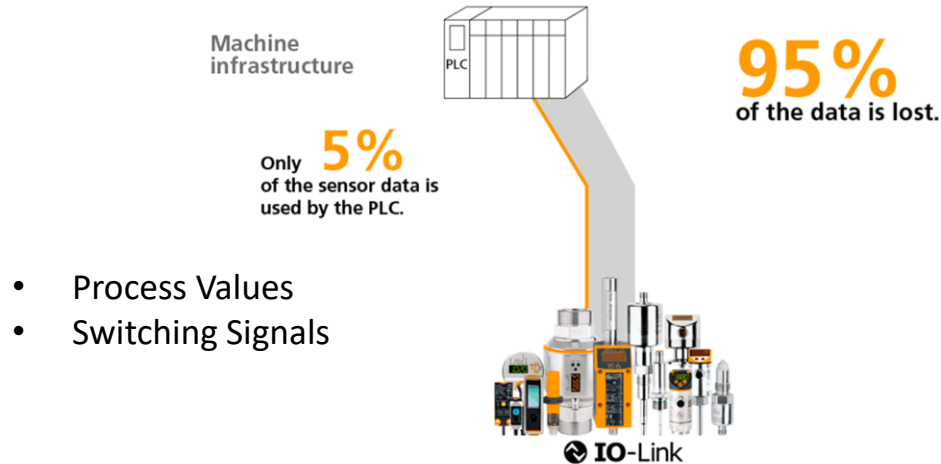
IO Link

IO-Link is a point-to-point open serial communication protocol.



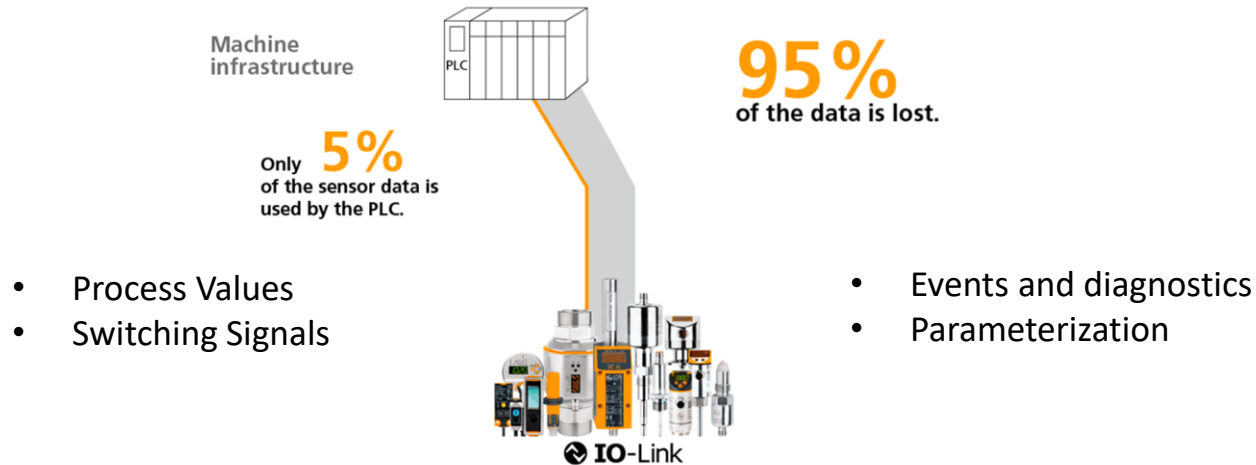
IO Link

IO-Link is a point-to-point open serial communication protocol.



IO Link

IO-Link is a point-to-point open serial communication protocol.





IO Link



Identification



Easy sensor replacement



Tamper free

0000100010
0001111001
0010100011

No measured value losses



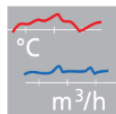
IO Link



Remote Parameterization



Scalable technology

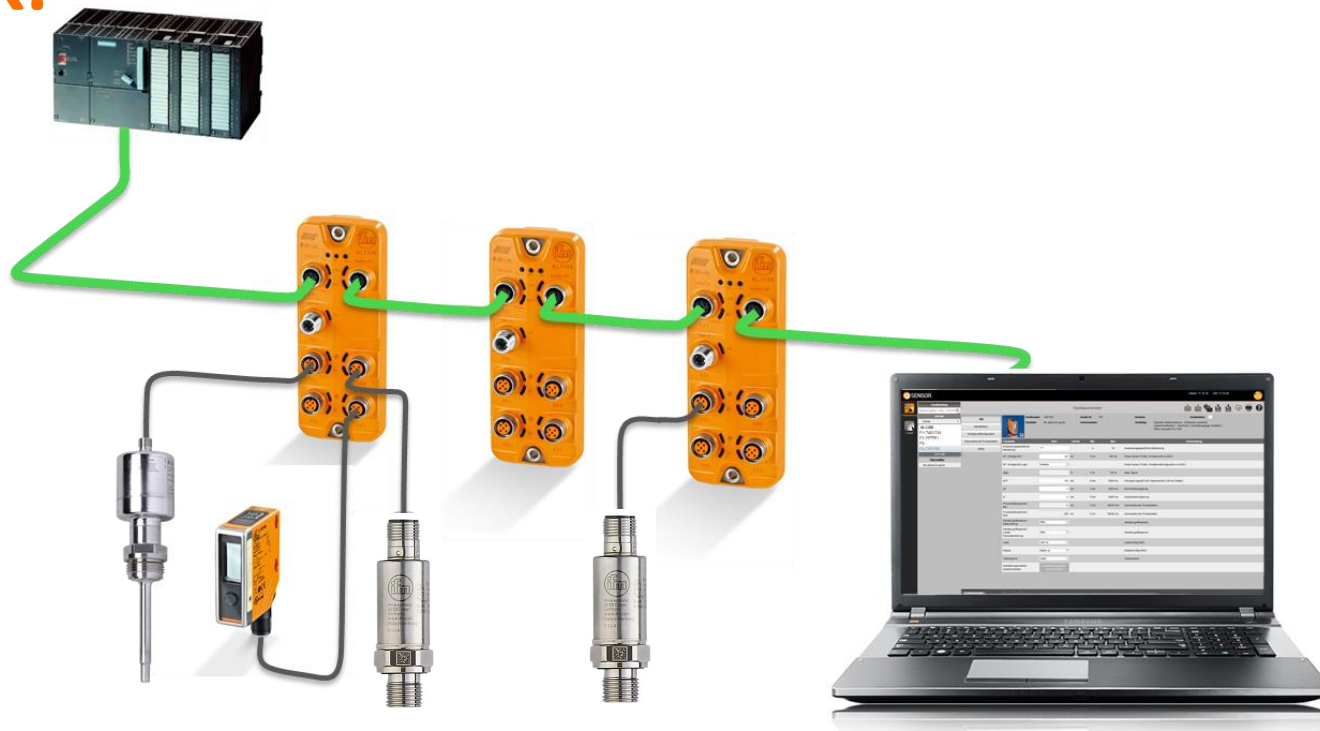


Multiple sensor values

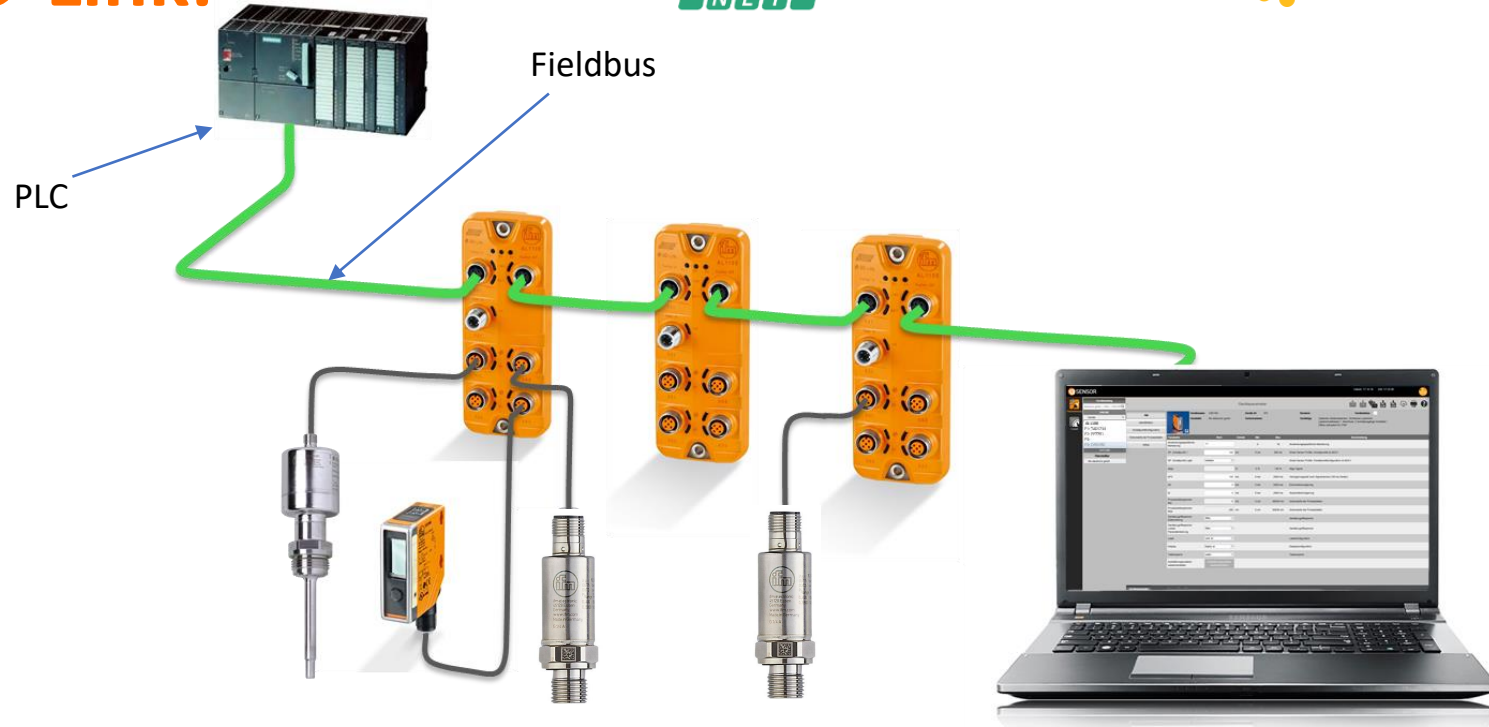


Reduces costs

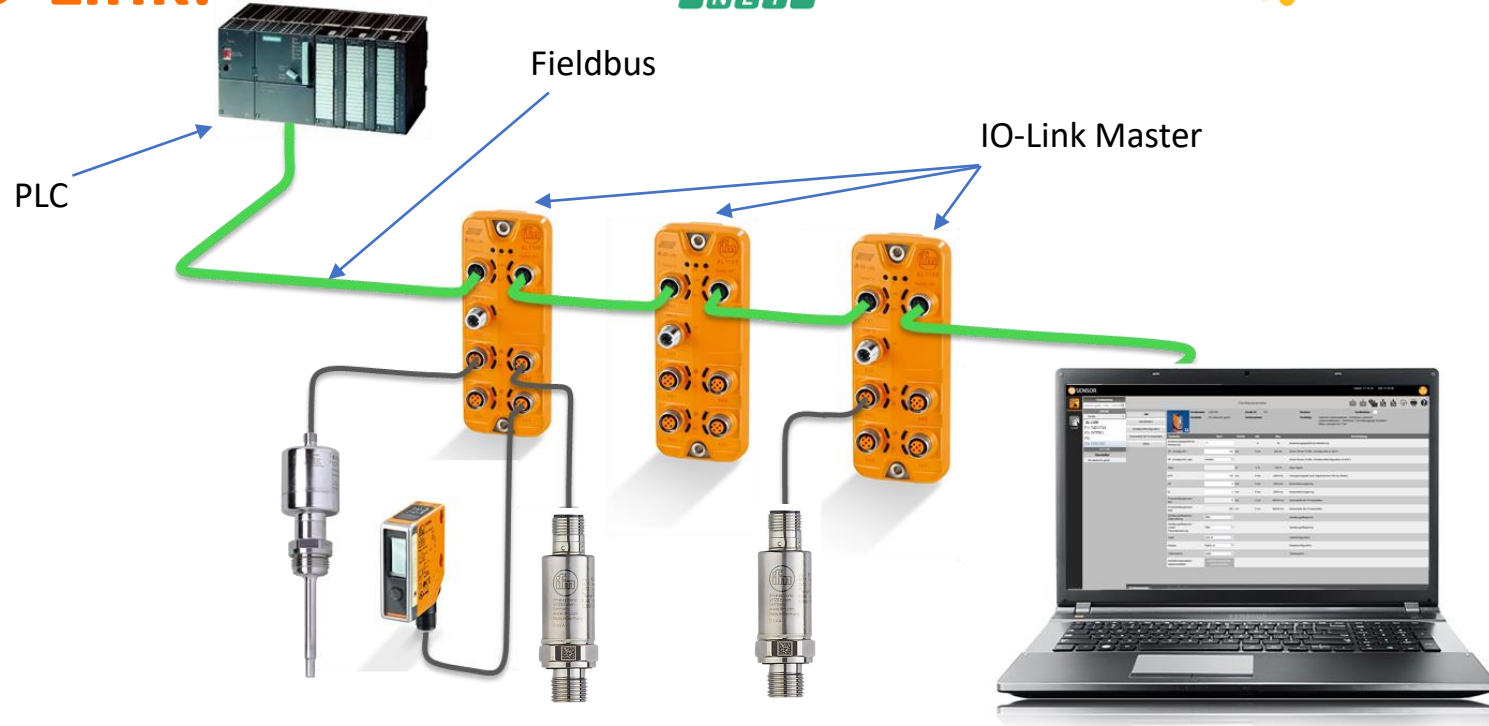
IO-Link:



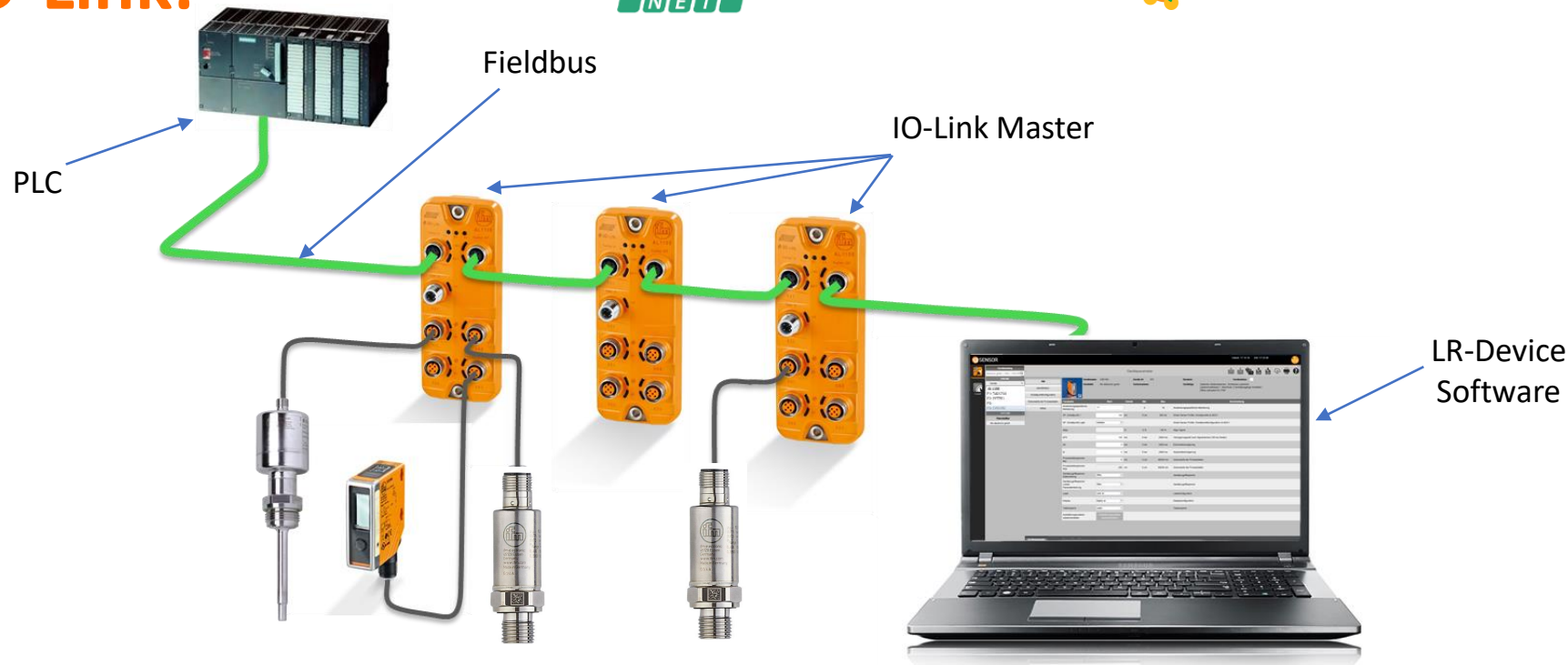
IO-Link:



IO-Link:



IO-Link:



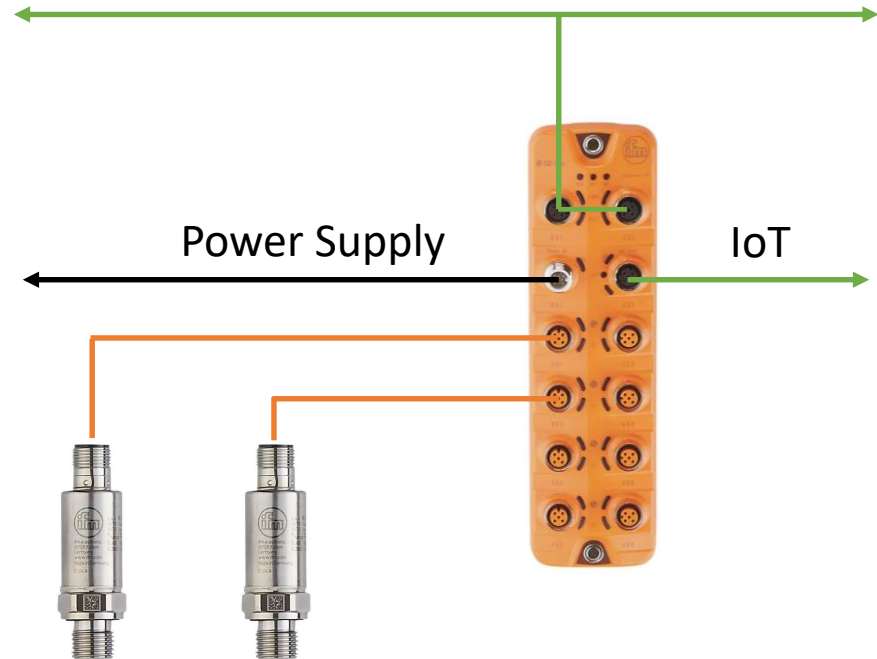
Sensor Connection on IO-Link



Fieldbus

IO-Link:

- Digital transmission of process data
 - Pressure and temperature
- User can control and configure switch points
- Receive diagnostic information directly from the sensor
- Easy plug & play replacement of sensors in case of failure





LR Device Software

DEVICE

Setup

Cockpit

Device catalogue

Fast access

ONLINE

Devices

OFFLINE

Vendor

ifm electronic gmbh

PV8

PV8000

PV8001

PV8002

PV8003

PV8004

PV8023

PV8060

All

Identification

Parameter

Output configuration

Digital output 1

Pressure

Digital output 2

Pressure

Temperature

Memory

Pressure

Temperature

Application Setup

Damping

Setting of the sensor display

Counter configuration

Setup

Diagnosis

Pressure

Temperature

Product ID: PV8004

Vendor: ifm electronic gmbh

Device ID: 1210 d (310 d)

Serial number:

Revision:

Device state:

Device type: Electronic pressure switch, -1.000...10.000 bar, G 1/4 A nach ISO 1179-2, Innengewinde M5

Parameter	Value	Unit	Min	Max	Description
Application Specific Tag	***		0	32	Application Specific Tag
Function Tag	***		0	32	Possibility to mark a device with function-specific information.
Location Tag	***		0	32	Possibility to mark a device with location-specific information.
ou1	Hno / Hysteresis fct normally open				Output configuration [OUT 1]
ou2	Hno / Hysteresis fct normally open				Output configuration [OUT 2]
SEL2	PRES				Selection of the measurand for the evaluation via [OUT 2]
P-n	PnP				Output polarity for the switching outputs
dS1	0.0	s	0.0 s	50.0 s	Switching delay for [OUT 1]
dr1	0.0	s	0.0 s	50.0 s	Reset delay for [OUT 1]
SP1 (FH1) - PRES	2.500	bar	-0.949 bar	10.000 bar	Switch point 1 / Pressure. SP1 shall be above rP1. Min distance SP1...rP1 = 0.049 bar. For details, see operating manual.
rP1 (FL1) - PRES	2.300	bar	-0.949 bar	10.000 bar	Reset point 1 / Pressure. Reset point 1 / Pressure. rP1 shall be below SP1. Min distance SP1...rP1 ==> see SP1.
dS2	0.0	s	0.0 s	50.0 s	Switching delay for [OUT 2]
dr2	0.0	s	0.0 s	50.0 s	Reset delay for [OUT 2]
SP2 (FH2) - PRES	7.500	bar	-0.949 bar	10.000 bar	Switch point 2 / Pressure. SP2 shall be above rP2. Min distance SP2...rP2 = 0.049 bar. For details, see operating manual.

javascript: Device parameters



LR Device Software

DEVICE

Setup

Cockpit

Device catalogue

Fast access

ONLINE

Devices

OFFLINE

Vendor

ifm electronic gmbh

PV8

PV8000

PV8001

PV8002

PV8003

PV8004

PV8023

PV8060

All

Identification

Parameter

Output configuration

Digital output 1

Pressure

Digital output 2

Pressure

Temperature

Memory

Pressure

Temperature

Application Setup

Damping

Setting of the sensor display

Counter configuration

Setup

Diagnosis

Pressure

Temperature

Product ID: PV8004

Device ID: 1210 d (310 d)

Revision:

Device state:

Vendor: ifm electronic gmbh

Serial number:

Device type: Electronic pressure switch, -1.000...10.000 bar, G 1/4 A nach ISO 1179-2, Innengewinde M5

Parameter

Value

Unit

Min

Max

Description

Application Specific Tag

0

32

Application Specific Tag

Function Tag

0

32

Possibility to mark a device with function-specific information.

Location Tag

0

32

Possibility to mark a device with location-specific information.

Device parameters



LR Device Software

DEVICE

Setup

Cockpit

Device catalogue

Fast access

ONLINE

Devices

OFFLINE

Vendor

ifm electronic gmbh

PV8

PV8000

PV8001

PV8002

PV8003

PV8004

PV8023

PV8060

All

Identification

Parameter

Output configuration

Digital output 1

Pressure

Digital output 2

Pressure

Temperature

Memory

Pressure

Temperature

Application Setup

Damping

Setting of the sensor display

Counter configuration

Setup

Diagnosis

Pressure

Temperature

Product ID: PV8004

Device ID: 1210 d (310 d)

Revision:

Device state:

Vendor: ifm electronic gmbh

Serial number:

Device type: Electronic pressure switch, -1.000...10.000 bar, G 1/4 A nach ISO 1179-2, Innengewinde M5

Value

Unit

Min

Max

Description

ou1

Hno / Hysteresis fct normally open

Output configuration [OUT 1]

ou2

Hno / Hysteresis fct normally open

Output configuration [OUT 2]

SEL2

PRES

Selection of the measurand for the evaluation via [OUT 2]

P-n

PnP

Output polarity for the switching outputs

Device parameters



LR Device Software

DEVICE Date: 8/21/20 Time: 9:39:49 AM ?

Device catalogue

Fast access

ONLINE +

OFFLINE

Vendor

ifm electronic gmbh

PV8

PV8000

PV8001

PV8002

PV8003

PV8004

PV8023

PV8060

All

Identification

Parameter

Output configuration

Digital output 1

Pressure

Digital output 2

Pressure

Temperature

Memory

Pressure

Temperature

Application Setup

Damping

Setting of the sensor display

Counter configuration

Setup

Diagnosis

Pressure

Temperature

Device parameters

Product ID: PV8004 Device ID: 1210 d (310 d) Revision: Device state: ☐

Vendor: ifm electronic gmbh Serial number: Device type: Electronic pressure switch, -1.000...10.000 bar, G 1/4 A nach ISO 1179-2, Innengewinde M5

Parameter	Value	Unit	Min	Max	Description
ou1	Hno / Hysteresis fct normally open				Output configuration [OUT 1]
ou2	Hno / Hysteresis fct normally open				Output configuration [OUT 2]
SEL2	Hnc / Hysteresis fct normally closed				
	Fnc / Window fct normally open				
	Fnc / Window fct normally closed				Selection of the measurand for the evaluation via [OUT 2]
P-n	OFF / Output Off				
	PnP				Output polarity for the switching outputs



LR Device Software

DEVICE Date: 8/21/20 Time: 9:40:11 AM ?

Device catalogue

Fast access

ONLINE

Devices

OFFLINE

Vendor

ifm electronic gmbh

PV8

PV8000

PV8001

PV8002

PV8003

PV8004

PV8023

PV8060

All

Identification

Parameter

Output configuration

Digital output 1

Pressure

Digital output 2

Pressure

Temperature

Memory

Pressure

Temperature

Application Setup

Damping

Setting of the sensor display

Counter configuration

Setup

Diagnosis

Pressure

Temperature

Device parameters

Product ID: PV8004 Device ID: 1210 d (310 d) Revision: Device state: ☐

Vendor: ifm electronic gmbh Serial number: Device type: Electronic pressure switch, -1.000...10.000 bar, G 1/4 A nach ISO 1179-2, Innengewinde M5

		Value	Unit	Min	Max	Description
ou1		Hno / Hysteresis fct normally open				Output configuration [OUT 1]
ou2		Hno / Hysteresis fct normally open				Output configuration [OUT 2]
SEL2		PRES				Selection of the measurand for the evaluation via [OUT 2]
P-n		PRES				Output polarity for the switching outputs
		TEMP				



LR Device Software

DEVICE

Date: 8/21/20 Time: 9:40:34 AM

Setup

Cockpit

Device catalogue

Fast access

ONLINE

Devices

OFFLINE

Vendor

ifm electronic gmbh

PV8

PV8000

PV8001

PV8002

PV8003

PV8004

PV8023

PV8060

All

Identification

Parameter

Output configuration

Digital output 1

Pressure

Digital output 2

Pressure

Temperature

Memory

Pressure

Temperature

Application Setup

Damping

Setting of the sensor display

Counter configuration

Setup

Diagnosis

Pressure

Temperature

Product ID: PV8004

Device ID: 1210 d (310 d)

Revision:

Device state:

Vendor: ifm electronic gmbh

Serial number:

Device type: Electronic pressure switch, -1.000...10.000 bar, G 1/4 A nach ISO 1179-2, Innengewinde M5

Parameter	Value	Unit	Min	Max	Description
dr1	0.0	s	0.0 s	50.0 s	Switching delay for [OUT 1]
dr1	0.0	s	0.0 s	50.0 s	Reset delay for [OUT 1]



LR Device Software

DEVICE

Setup

Cockpit

Device catalogue

Fast access

ONLINE

Devices

OFFLINE

Vendor

ifm electronic gmbh

PV8

PV8000

PV8001

PV8002

PV8003

PV8004

PV8023

PV8060

All

Identification

Parameter

Output configuration

Digital output 1

Pressure

Digital output 2

Pressure

Temperature

Memory

Pressure

Temperature

Application Setup

Damping

Setting of the sensor display

Counter configuration

Setup

Diagnosis

Pressure

Temperature

Product ID: PV8004

Device ID: 1210 d (310 d)

Revision:

Device state:

Vendor: ifm electronic gmbh

Serial number:

Device type: Electronic pressure switch, -1.000...10.000 bar, G 1/4 A nach ISO 1179-2, Innengewinde M5

Parameter	Value	Unit	Min	Max	Description
SP1 (FHT) - PRES	2.500	bar	-0.949 bar	10.000 bar	Switch point 1 / Pressure. SP1 shall be above rP1. Min distance SP1...rP1 = 0.049 bar. For details, see operating manual.
rP1 (FHT) - PRES	2.300	bar	-0.949 bar	10.000 bar	Reset point 1 / Pressure. Reset point 1 / Pressure. rP1 shall be below SP1. Min distance SP1...rP1 ==> see SP1.

Device parameters



LR Device Software

DEVICE

Setup

Cockpit

Device catalogue

Fast access

ONLINE

Devices

OFFLINE

Vendor

ifm electronic gmbh

PV8

PV8000

PV8001

PV8002

PV8003

PV8004

PV8023

PV8060

All

Identification

Parameter

Output configuration

Digital output 1

Pressure

Digital output 2

Pressure

Temperature

Memory

Pressure

Temperature

Application Setup

Damping

Setting of the sensor display

Counter configuration

Setup

Diagnosis

Pressure

Temperature

Device parameters

Product ID: PV8004

Device ID: 1210 d (310 d)

Revision:

Device state:

Vendor: ifm electronic gmbh


Serial number:


Device type: Electronic pressure switch, -1.000...10.000 bar, G 1/4 A nach ISO 1179-2, Innengewinde M5


Parameter	Value	Unit	Min	Max	Description
Lo.P		bar	-1.000 bar	10.500 bar	Minimum memory value for pressure
Hi.P		bar	-1.000 bar	10.500 bar	Maximum memory value for pressure
Standard Command	Reset [Hi.P] and [Lo.P] memory				
Standard Command	Reset [Lo.P] memory				
Standard Command	Reset [Hi.P] memory				



LR Device Software

 **DEVICE**

 Setup

 Cockpit

Device catalogue

Fast access

ONLINE

Devices

OFFLINE

Vendor

ifm electronic gmbh

PV8

PV8000

PV8001

PV8002

PV8003

PV8004

PV8023

PV8060

All

Identification

Parameter

Output configuration

Digital output 1

Pressure

Digital output 2

Pressure

Temperature

Memory

Pressure

Temperature

Application Setup

Damping

Setting of the sensor display


Counter configuration

Setup

Diagnosis

Pressure

Temperature



Product ID: PV8004

Device ID: 1210 d (310 d)

Revision:

Device state:

Vendor: ifm electronic gmbh

Serial number:

Device type: Electronic pressure switch, -1.000...10.000 bar, G 1/4 A nach ISO 1179-2, Innengewinde M5

Parameter	Value	Unit	Min	Max	Description
Lo.T		°C	-45.0 °C	95.0 °C	Minimum memory value for temperature
Hi.T		°C	-45.0 °C	95.0 °C	Maximum memory value for temperature
Standard Command	Reset [Hi.T] and [Lo.T] memory				
Standard Command	Reset [Lo.T] memory				
Standard Command	Reset [Hi.T] memory				

Device parameters



LR Device Software

DEVICE

Setup

Cockpit

Device catalogue

Fast access

ONLINE

Devices

OFFLINE

Vendor

ifm electronic gmbh

PV8

PV8000

PV8001

PV8002

PV8003

PV8004

PV8023

PV8060

All

Identification

Parameter

Output configuration

Digital output 1

Pressure

Digital output 2

Pressure

Temperature

Memory

Pressure

Temperature

Application Setup

Damping

Setting of the sensor display

Counter configuration

Setup

Diagnosis

Pressure

Temperature

Product ID: PV8004

Device ID: 1210 d (310 d)

Revision:

Device state:

Vendor: ifm electronic gmbh

Serial number:

Device type: Electronic pressure switch, -1.000...10.000 bar, G 1/4 A nach ISO 1179-2, Innengewinde M5

Parameter	Value	Unit	Min	Max	Description
coF	<input type="text" value="0.00"/>	%	-5.00 %	5.00 %	Zero-point calibration (Calibration offset)



LR Device Software

DEVICE

Setup

Cockpit

Device catalogue

Fast access

ONLINE

Devices

OFFLINE

Vendor

ifm electronic gmbh

PV8

PV8000

PV8001

PV8002

PV8003

PV8004

PV8023

PV8060

All

Identification

Parameter

Output configuration

Digital output 1

Pressure

Digital output 2

Pressure

Temperature

Memory

Pressure

Temperature

Application Setup

Damping

Setting of the sensor display

Counter configuration

Setup

Diagnosis

Pressure

Temperature

Product ID: PV8004

Device ID: 1210 d (310 d)

Revision:

Device state:

Vendor: ifm electronic gmbh

Serial number:

Device type: Electronic pressure switch, -1.000...10.000 bar, G 1/4 A nach ISO 1179-2, Innengewinde M5

Parameter

Value

Unit

Min

Max

Description

dAP

0.060

s

0.000 s

4.000 s

Damping of the measured signal

Device parameters



LR Device Software

DEVICE

Setup

Cockpit

Device catalogue

Fast access

ONLINE

Devices

OFFLINE

Vendor

ifm electronic gmbh

PV8

PV8000

PV8001

PV8002

PV8003

PV8004

PV8023

PV8060

All

Identification

Parameter

Output configuration

Digital output 1

Pressure

Digital output 2

Pressure

Temperature

Memory

Pressure

Temperature

Application Setup

Damping

Setting of the sensor display

Counter configuration

Setup

Diagnosis

Pressure

Temperature

Device parameters

Product ID: PV8004

Device ID: 1210 d (310 d)

Revision:

Device state:

Vendor: ifm electronic gmbh

Serial number:

Device type: Electronic pressure switch, -1.000...10.000 bar, G 1/4 A nach ISO 1179-2, Innengewinde M5

Parameter	Value	Unit	Min	Max	Description
OUT Counter. OUT1	0		0	2147482880	OUT1 counter
OUT Counter. OUT2	0		0	2147482880	OUT2 counter
Standard Command	Reset OUT counter to zero				



LR Device Software

DEVICE

Setup

Cockpit

Device catalogue

Fast access

ONLINE

Devices

OFFLINE

Vendor

ifm electronic gmbh

PV8

PV8000

PV8001

PV8002

PV8003

PV8004

PV8023

PV8060

All

Identification

Parameter

Output configuration

Digital output 1

Pressure

Digital output 2

Pressure

Temperature

Memory

Pressure

Temperature

Application Setup

Damping

Setting of the sensor display

Counter configuration

Setup

Diagnosis

Pressure

Temperature

Product ID: PV8004

Vendor: ifm electronic gmbh

Device ID: 1210 d (310 d)

Serial number:

Revision:

Device state:

Device type: Electronic pressure switch, -1.000...10.000 bar, G 1/4 A nach ISO 1179-2, Innengewinde M5

Parameter	Value	Unit	Min	Max	Description
Device Status	Device is OK		5	255	Device Status
Detailed Device Status [1]	No malfunction		0	3	Detailed Device Status
Detailed Device Status [2]	No malfunction		0	3	Detailed Device Status
Detailed Device Status [3]	No malfunction		0	3	Detailed Device Status
Detailed Device Status [4]	No malfunction		0	3	Detailed Device Status
Detailed Device Status [5]	No malfunction		0	3	Detailed Device Status
Detailed Device Status [6]	No malfunction		0	3	Detailed Device Status
Detailed Device Status [7]	No malfunction		0	3	Detailed Device Status
Detailed Device Status [8]	No malfunction		0	3	Detailed Device Status
Detailed Device Status [9]	No malfunction		0	3	Detailed Device Status
Detailed Device Status [10]	No malfunction		0	3	Detailed Device Status
Detailed Device Status [11]	No malfunction		0	3	Detailed Device Status
Operating hours		h	0 h	2147482880 h	Counter of the operating hours since delivery
Active Events: Bit_31	noEv				Test Event 2: Device Status = 1 (Maintenance required)

Device parameters

DATE TIME

?



LR Device Software

DEVICE

Setup

Cockpit

Device catalogue

Fast access

ONLINE

Devices

OFFLINE

Vendor

ifm electronic gmbh

PV8

PV8000

PV8001

PV8002

PV8003

PV8004

PV8023

PV8060

All

Identification

Parameter

Output configuration

Digital output 1

Pressure

Digital output 2

Pressure

Temperature

Memory

Pressure

Temperature

Application Setup

Damping

Setting of the sensor display

Counter configuration

Setup

Diagnosis

Pressure

Temperature

Product ID: PV8004

Vendor: ifm electronic gmbh

Device ID: 1210 d (310 d)

Serial number:

Revision:

Device state:

Device type: Electronic pressure switch, -1.000...10.000 bar, G 1/4 A nach ISO 1179-2, Innengewinde M5

Active Events Bit_31	noEv	Test Event 2 Device Status = 1 (Maintenance required)
Active Events Bit_30	noEv	Test Event 1 Device Status = 1 (Maintenance required)
Active Events Bit_18	noEv	Measurement range over-run
Active Events Bit_17	noEv	Component malfunction
Active Events Bit_15	noEv	Device temperature over-run
Active Events Bit_14	noEv	Device temperature under-run
Active Events Bit_9	noEv	Process variable range under-run
Active Events Bit_8	noEv	Process variable range over-run
Active Events Bit_3	noEv	Short circuit
Active Events Bit_2	noEv	Parameter error
Active Events Bit_1	noEv	Component malfunction
Active Events Bit_0	noEv	Device hardware fault
Param configuration fault [1]	OK	Displays the incorrectly set parameters
Param configuration fault [2]	OK	Displays the incorrectly set parameters
Param configuration fault [3]	OK	Displays the incorrectly set parameters

Device parameters



LR Device Software

DEVICE

Setup

Cockpit

Device catalogue

Fast access

ONLINE

Devices

OFFLINE

Vendor

ifm electronic gmbh

PV8

PV8000

PV8001

PV8002

PV8003

PV8004

PV8023

PV8060

All

Identification

Parameter

Output configuration

Digital output 1

Pressure

Digital output 2

Pressure

Temperature

Memory

Pressure

Temperature

Application Setup

Damping

Setting of the sensor display

Counter configuration

Setup

Pressure

Temperature

Device parameters

Product ID: PV8004

Device ID: 1210 d (310 d)

Revision:

Device state:

Vendor: ifm electronic gmbh

Serial number:

Device type: Electronic pressure switch, -1.000...10.000 bar, G 1/4 A nach ISO 1179-2, Innengewinde M5

Parameter	Value	Unit	Min	Max	Description
Standard Command	Reset overload counter [HIPC]				
HIPC	0		0	4234967295	Pressure overload counter
HIPS - PRES	10.000	bar	-1.000 bar	10.000 bar	Configuration of pressure overload counter switch point



LR Device Software

DEVICE

Setup

Cockpit

Device catalogue

Fast access

ONLINE

Devices

OFFLINE

Vendor

ifm electronic gmbh

PV8

PV8000

PV8001

PV8002

PV8003

PV8004

PV8023

PV8060

All

Identification

Parameter

Output configuration

Digital output 1

Pressure

Digital output 2

Pressure

Temperature

Memory

Pressure

Temperature

Application Setup

Damping

Setting of the sensor display

Counter configuration

Setup

Diagnosis

Pressure

Temperature

Product ID: PV8004

Device ID: 1210 d (310 d)

Revision:

Device state:

Vendor: ifm electronic gmbh

Serial number:

Parameter

Value

Unit

Min

Max

Description

Standard Command

Reset overload counter [HITC]

HITC

0

0

4294967295

Temperature overload counter

HITS - TEMP

90.0 °C

-40.0 °C

90.0 °C

Configuration of temperature overload counter switch point

Internal temperature

▼ °C

-40.0 °C

95.0 °C

Current internal temperature of the device

Date: 8/21/20

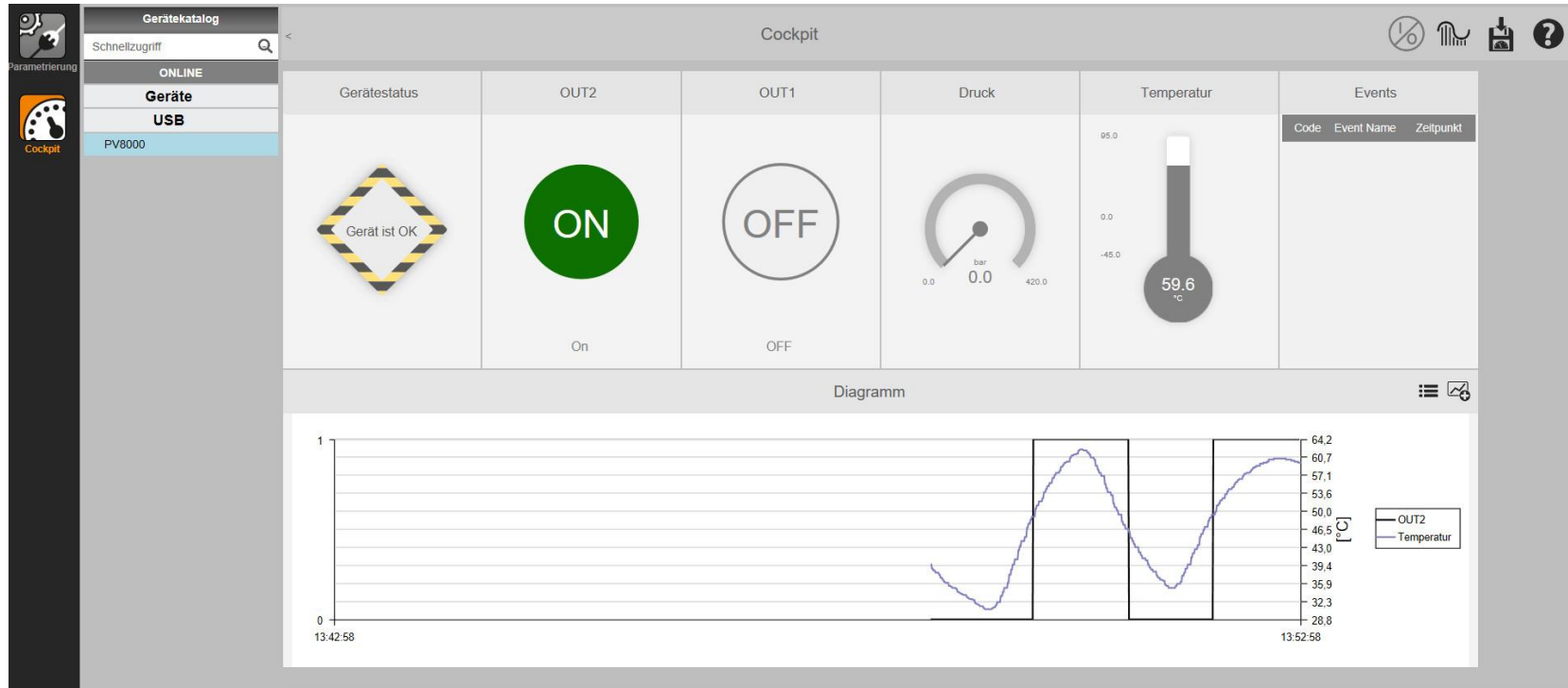
Time: 9:45:04 AM

?

ifm



LR Device Software





IO-Link Advantages:

- More than one process value from one sensor
- No conversion losses
- Reduce cable amount
- Easy sensor parameterisation
- Over pressure and temperature counters
- Switch state counters
- + More diagnostics

Application Example – Gearbox Oil Circulation

- Measure oil pressure
- Measure oil temperature



Application Example – Compressor & Pumps

- Ensure lubricating oil is operating at ideal temperature
- Trend temperature easily



Application Example – Cooling Circuits

- Measure inlet and outlet pressure
- Measure inlet and outlet temperature
- Trend temperature easily and calculate efficiency





Summary:

PV8***:

- Can be used as a standard pressure or temperature switch
- More than one process measurement (Pressure + Temperature)
- Cost saving
- Diagnostics
- Over-run counters

IO-Link Starter Kits

Various IO-Link started kits are available

Part No: ZZ1100, ZZ1122, ZZ0619 etc

Includes:

- LR Device Software
- IO-Link Master
- IO-Link Sensor
- Cables and accessories

Price Range - R5178 to R8150

Let us help you **start** your journey to the
4th Industrial Revolution



Q & A

Do you have questions about the products featured?





Webinar Schedule

7 October 2020

Industrial Condition Monitoring – New IO-Link Vibration Sensor with Temperature Monitoring (Part 1)

14 October 2020

Industrial Condition Monitoring – New IO-Link Vibration Sensor Machine Classification (Part 2)

See the next webinars at the link below:

<https://www.ifm.com/za/en/za/webinars/2020>





ifm South Africa

Follow us on Social Media



ifm electronic – Pty LTD - ZA



<https://www.youtube.com/user/ifmelectronic>



www.linkedin.com/company/ifm



Thank you for participating

Please contact us:



Jannie Claasens

Sales Engineer

Freestate / Lesotho

ifm electronic ZA
112 Sovereign Drive
R21 Corportate Park
Irene Centurion
Phone 012 450 0400
E-Mail:
Jannie.Claasens@ifm.com
Internet www.ifm.com



**Francois
Gey van Pittius**

Sales Manager:

Gauteng
Sub-Sahara Africa

ifm electronic ZA
112 Sovereign Drive
R21 Corportate Park
Irene Centurion
Phone 012 450 0400
E-Mail:
Francois.Gey.van.Pittius@ifm.com
Internet www.ifm.com