

# Siemens Digital Industries Webinari

## PI2: PI Workshop for specialist



## Siemens Digital Industries Webinari 1/2



Datum	Tema	Predavač
14.04. / 19.05.	FA1: Motion Control	<i>Darko Živković, Jelena Đukić</i>
15.04. / 14.05.	FA2: Energy Management System	<i>Zoran Jovanović</i>
22.04. / 21.05.	FA3: Redundantni kontroleri serije S7-1500R/H	<i>Mirko Milovanović</i>
05.05. / 26.05.	FA4: WinCC Unified	<i>Mirko Milovanović</i>
15.04. / 13.05.	MC1: DT konfigurator	<i>Nenad Bakal, Pavle Dragišić</i>
23.04. / 22.05.	MC2: Sizer, large drives	<i>Miloš Marković, Pavle Dragišić</i>
06.05. / 26.05.	MC3: Sizer, motion drives	<i>Miloš Marković, Pavle Dragišić</i>
21.04. / 21.05.	CI1: Industrial Networks	<i>Jelena Đukić</i>



## Siemens Digital Industries Webinari 2/2



Datum	Tema	Predavač
16.04. / 15.05.	PI1: PI Academy world	Andrijana Popara, Miljan Miljanić, Marko Marić
24.04. / 22.05.	PI2: PI workshop for specialist	Andrijana Popara, Miljan Miljanić, Marko Marić
08.05. / 29.05.	PI3: #New@PI	Andrijana Popara, Miljan Miljanić, Marko Marić
30.04. / 29.05.	AE1: Digitalna rešenja u procesnoj industriji	Jelena Đukić, Marko Milenković
29.04.	CP1: Control Panel Online Symposium	Siemens worldwide webinar
22.04. / 27.05.	CP2: Clever engineering in the control panel	Tijana Džodžo
28.04. / 12.05.	CP3: New series of signaling devices 3SU	Tijana Džodžo
21.04. / 20.05.	CP4: SIRIUS 3RW Soft starters	Bojan Janković
07.05. / 28.05.	DE1: Siemens Digital Enterprise	Zoran Jovanović

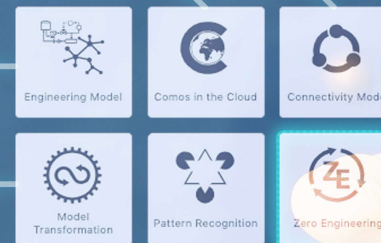


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SIEMENS Apps for Process Industries

### Engineering

#### Engineering



### Ensure Asset Uptime

#### DCS



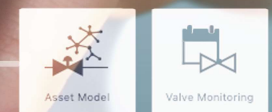
#### Instrumentation



#### Valves & Pumps



#### Drives & Turbines



# PI Workshop for specialist

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## Predavači



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🏠 Beograd, Srbija



**Miljan  
Miljanić**

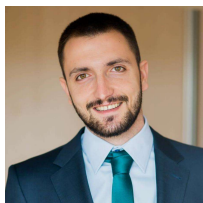
Inženjer prodaje

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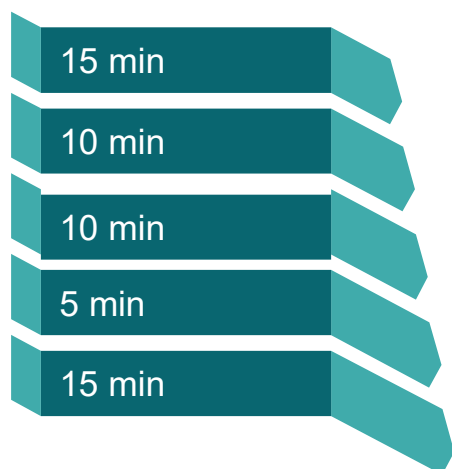
🏠 Beograd, Srbija

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## Agenda



### Teme

Sitrans FP FP230-FP330

Sitrans LR 100

Sitrans MAG 100

Tehnički crteži, pomoćni alati za procesnu opremu

Zaključci, komentari, pitanja

### Predavač

Miljan Miljanić

Andrijana Popara

Marko Marić

Marko Marić



# Optimize processes with our automation and instrumentation portfolio

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Pressure  
Measurement



Temperature  
Measurement



Flow Measurement



Level Measurement



Positioners



Weight Measurement



Process Protection



Process Controllers



Process Recorders



Supplementary  
Components



Communication  
and Software



Product Solutions  
for OEM





# SITRANS FP230/FP330 Pitot tubes and orifice plates





The established addition to the SITRANS F flow portfolio.

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When it comes to boosting productivity, choosing the right flowmeter can make all the difference. The trusted SITRANS F product family has versatile and reliable flow measurement solutions built to suit every industry and process.



## Top highlights at a glance

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### Complete measuring system +

Pre-mounted system consisting of primary element, valves/manifolds and transmitter

### Advanced sizing tool +

Web-based sizing and configuration of the primary elements with direct feedback

### Huge variety +

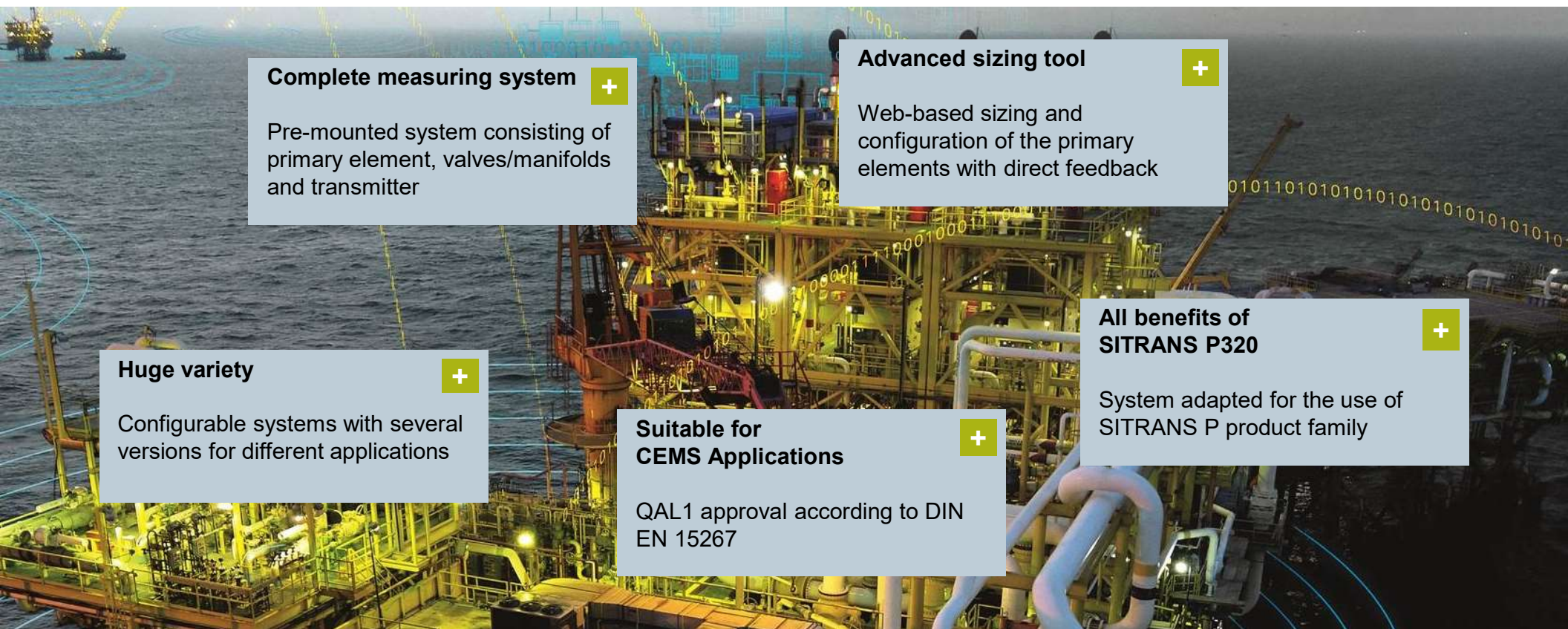
Configurable systems with several versions for different applications

### Suitable for CEMS Applications +

QAL1 approval according to DIN EN 15267

### All benefits of SITRANS P320 +

System adapted for the use of SITRANS P product family





## The easy way to handle dP-Flow measurement

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### Feature/Function

Large variety of different designs and materials

Compact or remote version

Complete flow solution

Advanced sizing tool

### Benefit

- Suitable for a vast range of different applications
- Suitable for various process conditions and parameters
- Flexible mounting
- One pressure transmitter for all applications
- Single source supplier for the hole measuring point
- Pre-mounted flowmeter delivered in “one box”
- Easy traceability throughout the ordering process
- Direct technical feedback and possibility to order



# The easy way to handle dP-Flow measurement

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## SITRANS FP230/330

### Large variety

- **Diameter:** DN10 ... DN4000
- **Material:** Stainless steel, high temperature steel, Hastelloy
- **Design:** Averaging pitot tube for gas and liquids, for steam, for flue gas, with FASTLOK; orifice plate with single tapping, annular chamber, meter run, insertion orifice, orifice flange for welding

### Complete system

- Pre-mounted measuring system
- Complete solution as remote version
- Single parts available as own product



### Safe

- Full SIL-2/3 assessment
- Intrinsic safety
- Ex approved, Ex I approved,
- IEC, ATEX, FM, CSA, KCC, EAC, INMETRO
- DNV-GL, LR, BV, ABS, KR, RINA, CCS, etc.
- Dual seal, AD2000

### Emission Monitoring

- Measuring system for CEMS\*
- QAL1 approval according to DIN EN 15267

\*Continuous Emission Monitoring System



# Your perfect choice for demanding applications



## Target applications



### Steam applications

- High Temperatures due to temperature resistant steel
- Cost-effective solutions



### Compressed air applications

- Efficient control of compressed air flow
- Low pressure loss due to small profile of pitot tubes

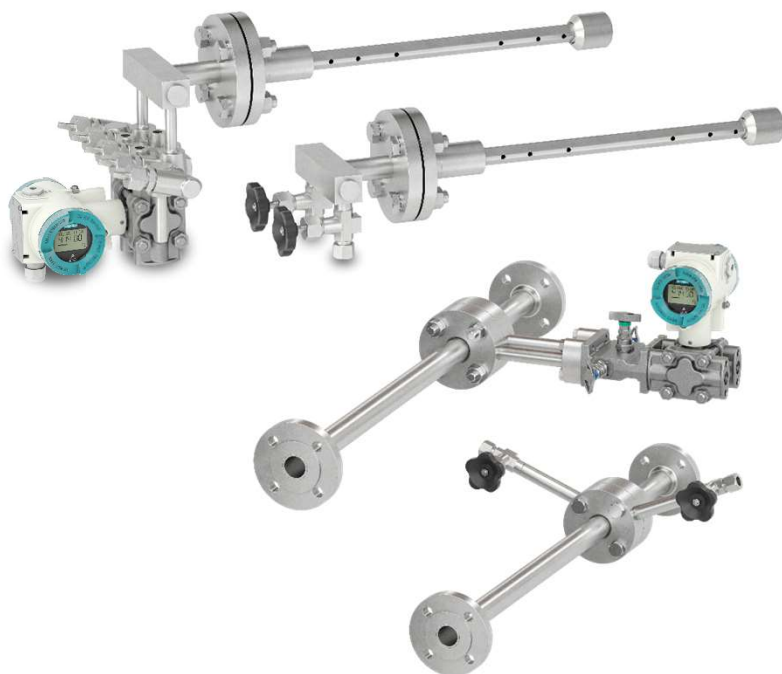


### Flue gas for CEMS

- QAL1 approval according to DIN EN 15267
- Safe and reliable monitoring of flue gas



## New set up of SITRANS FP portfolio



### Product description

Pitot tube measuring system  
(including pitot tube and SITRANS  
P320)

Pitot tube (only sensor)

Orifice measuring system (including  
orifice and SITRANS P320)

Orifice (only sensor)

# SIEMENS

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### Product Name

**SITRANS FP330**

**SITRANS FPS300**

**SITRANS FP230**

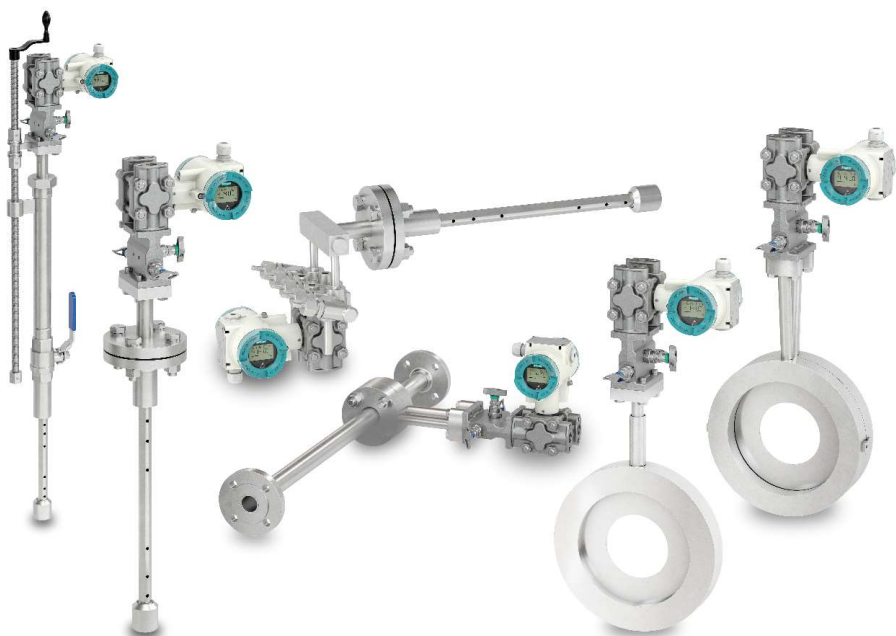
**SITRANS FPS200**



## New set up of SITRANS FP portfolio

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### Compact version



### Remote version





## 7ME161\*: Averaging Pitot Tube for gas and liquids

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FP330 compact



FPS300 remote





## 7ME162\*: Averaging Pitot Tube for steam

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FP330 compact

FPS300 remote





## 7ME163\*: Averaging Pitot Tube with FASTLOK

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FP330 compact



FPS300 remote





## 7ME171\*: Orifice plate with single tapping

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FP230 compact



FPS200 remote





## 7ME172\*: Orifice plate with annular chamber

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FP230 compact



FPS200 remote





## 7ME173\*: Orifice Meter run

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FP230 compact

FPS200 remote





## 7ME174\*: Insertion orifice plate

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FPS200 remote





## 7ME175\*: Orifice flange for welding

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FPS200 remote





# SITRANS FP230/330

## New dP-flow measuring system



### Product data overview

	SITRANS FPS300	SITRANS FPS200
Accuracy	<b>Linearity:</b> RE > 20,000: 1% <b>Repeatability:</b> RE > 20,000: 0.1%	Uncertainty at design flow: Typically 0.5% ... 1.2%
Media	Steam, liquids, gas	Steam, liquids, gas
Operating conditions	<b>Pressure:</b> up to PN100 (flange) <b>Temperature:</b> -100 °C ... 490 °C	<b>Pressure:</b> up to PN100 <b>Temperature:</b> acc. EN1092-1 / ASME B16.5
Installation conditions (exemplary for installation behind 90° elbow)	<b>Inlet:</b> 7 x inner diameter <b>Outlet:</b> 3 x inner diameter	<b>Inlet:</b> depends on $\beta$ -coefficient (typically 16 ... 44 x inner diameter) <b>Outlet:</b> depends on $\beta$ -coefficient (typically 6 ... 8 x inner diameter)
Design	Acc. to PED 2014/68 EU	Acc. to ISO 5167 (2003) Acc. to PED 2014/68 EU
Approvals	QAL1 Ex, SIL, ... acc. to SITRANS P320	Ex, SIL, ... acc. to SITRANS P320



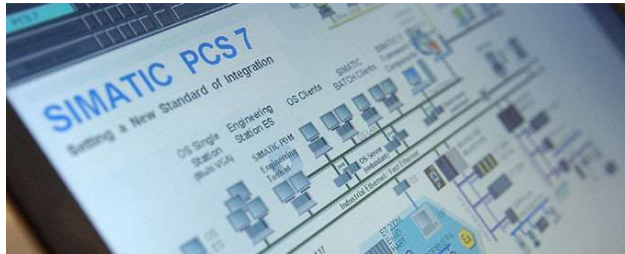
# Make engineering and operation even simpler and reliable

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## Interoperability/Lab tested

- Independent of control system manufacturer
- Test within system test



## Integrated Engineering

- COMOS, SIMIT, PCS 7, TIA Portal, eCI@ss
- SIMATIC PDM, SITRANS Library, EDD, SITRANS DTM, Field device integration (FDI)



## QR Code

Easy and fast way to get information:

- Manuals, Certificates, Approvals, FAQs, Downloads
- Calibration and manufacturing data



## How to find the sizing tool

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### 1. Open PIA LCP

[pia-portal.automation.siemens.com](http://pia-portal.automation.siemens.com)

### 2. Click „Sizing“ → „Start“ → „Flow“

Select the right step in the Product Life Cycle

[→ Engineering](#)

[→ Ordering](#)

[→ Installation & Operation](#)

[Selection](#) [Configuration](#) [Sizing](#)

Guided selection



Achieve product solutions that meet your requirements by specifying relevant parameters according to the measuring problem

- > Selection by Technology
- > Selection by Application
- > Selection by Industry

Product tree



Hierarchical product selection for process instrumentation, process analytics and weighing and batching systems.

> start

### 3. Click „SITRANS FP sizing tool“



**Does not work with Internet Explorer!**

Sizing & Calculation

Process Instrumentation






-  > Weighing and Batching Systems
-  > Temperature
-  > Positioner
-  > Pressure
-  > Flow

Flow



Process Analytics

-  > Process Analytics

- > SITRANS F M sizing
-  > SITRANS FC & FM sizer (download)
-  > SITRANS F M chemical resistance chart
-  > SITRANS F US clamp-on number conversion
-  > SITRANS F X sizing
- > SITRANS F O sizing
-  > SITRANS F O questionnaire
- > **SITRANS FP Sizing-Tool**



# Optimize processes with our automation and instrumentation portfolio

**SIEMENS**  
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Pressure  
Measurement



Temperature  
Measurement



Flow Measurement



Level Measurement



Positioners



Weight Measurement



Process Protection



Process Controllers



Process Recorders



Supplementary  
Components



Communication  
and Software



Product Solutions  
for OEM





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# SITRANS LR100 series Sales Slides

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[siemens.com/sitranslr100](https://www.siemens.com/sitranslr100)





# Radar transmitters for liquid level measurement

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## SITRANS LR200

- Low frequency
- Severe process conditions

## SITRANS LR250 PLA

- Great choice for process industries
- Ambient conditions with corrosive chemicals

## SITRANS LR250 FEA

- Extreme corrosive chemicals and high temp
- PTFE lens

## SITRANS LR250 horn

- Ideal for oil and gas
- Highest temp rating

## SITRANS LR250 HEA

- Hygienic antenna
- Variety of process connections

## SITRANS LR560

- > 30 m water applications
- Narrow beam
- Stainless steel enclosure

## SITRANS LR100/110/120

- Compact 80 GHz
- First choice for general industries
- Bluetooth® wireless technology





## Top highlights at a glance

### SITRANS LR100 series – first choice for general industries

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#### Bluetooth wireless technology +

Quick and easy setup with Mobile IQ.  
Narrow beam = No fine-tuning.

#### Zero blanking zone +

Measurement right up to the sensor. 2 mm accuracy means you can get rid of your manual measurement techniques.

#### Pioneers of technology and level measurement +

Trust over 170 years of Siemens innovative engineering experience.  
Millions of installed instruments.

#### 80 GHz custom radar microchip +

Signal killer conditions such as condensation, turbulence, buildup or light fluffy solids are easily measured.

#### Digitalization / Industry 4.0 +

HART 7 or optional Modbus RTU for intelligent, value adding data to your factory or the cloud.



## SITRANS LR100 series

### Level measurement for basic inventory in general industries

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#### Feature/Function

Bluetooth wireless technology with SITRANS mobile IQ app on your mobile device

2 mm accuracy (LR110/120 versions) and zero blanking distance

Custom radar microchip delivers exceptional sensitivity

80 GHz yields narrow beam

Digitalization ready with 2-wire HART 7.0 or 4-wire Modbus RTU

#### Benefit

- Time-saving and no specialists required
- Device status at a glance
- Precise measurement over entire range, accurate volume measurement.
- Signal killer conditions like condensation, turbulence, buildup or fluffy solids are no problem.
- No nozzle interference, no costly fine-tuning.
- Get status and diagnostic data immediately to your systems ensuring quality of your process and faster and intelligent data for operations



## SITRANS LR100 series

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### SITRANS LR100 series

#### Application conditions +

- Ideal for liquids or solids applications with process temperatures from -40 to 80°C (-40 to 176°F)
- Gas and dust approvals available
- Submergence shield option for flooding and fouling protection

#### Bluetooth wireless technology +

- SITRANS mobile IQ app provides an intuitive interface to quickly configure, setup and monitor
- SITRANS mobile IQ app is compatible with Android, Apple and Windows devices



#### Process connections +

- SITRANS LR100 and LR110 have thread 1½" NPT, BSPT, or BSPP
- Top thread is 1"

#### Communications +

- All have 2-wire, 4-20 mA
- SITRANS LR110 and LR120 also have HART or 4-wire, Modbus



## SITRANS LR100 series

### Suitable for a wide range of industries

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#### Target industries/applications



#### Chemicals

- Small vessels containing raw materials
- Measurement through plastic tanks non-intrusively
- Inventory management
- HART communication option

#### General Industries

- Automotive, Plastics, Electronics, Power
- Inventory management of raw materials
- Liquids and solids

#### Mining / Aggregate

- Inventory management
- Stacker conveyor piles
- Crusher level control
- Bins feeding crusher

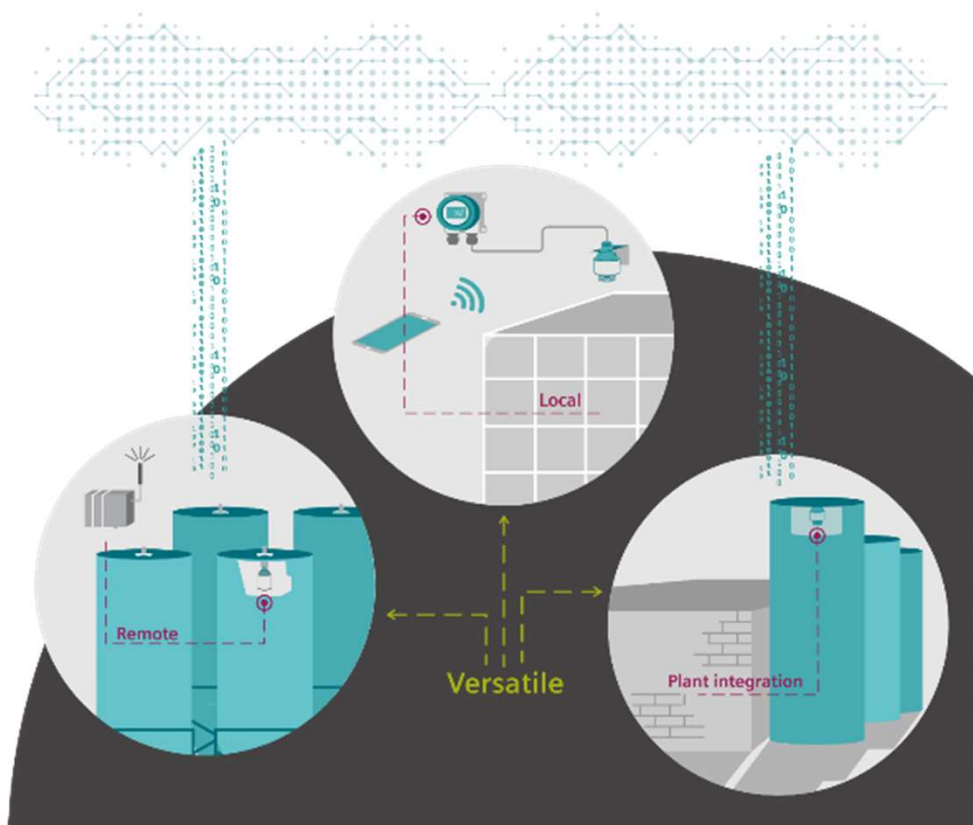
#### Remote sites

- Water management and reporting
- CSO
- Low power demands, solar battery powered sites.



## SITRANS LR100 series configuration options

### Remote. Local. Integrated.



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**SITRANS mobile IQ App** with **Bluetooth wireless technology** for fast and easy setup



**SIMATIC RTU3030C** for remote data collection and logging



**SITRANS RD150** for local readings and configure and display diagnostic data



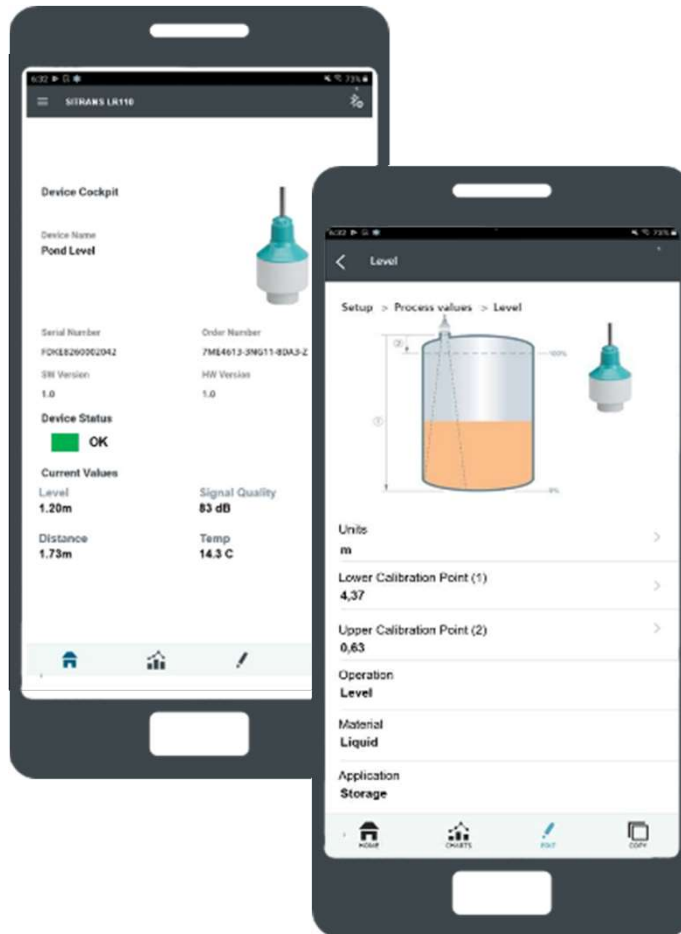
**SIMATIC PDM** for visualizing your data



# SITRANS LR100 series

## Easy and fast setup with SITRANS mobile IQ

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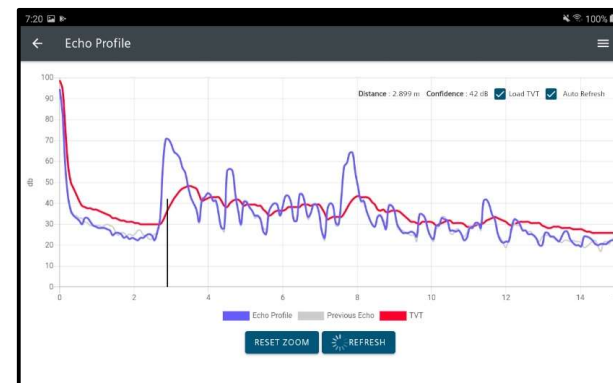
### Easy setup

Connect

Enter security PIN supplied  
with device

Follow basic setup

Done!

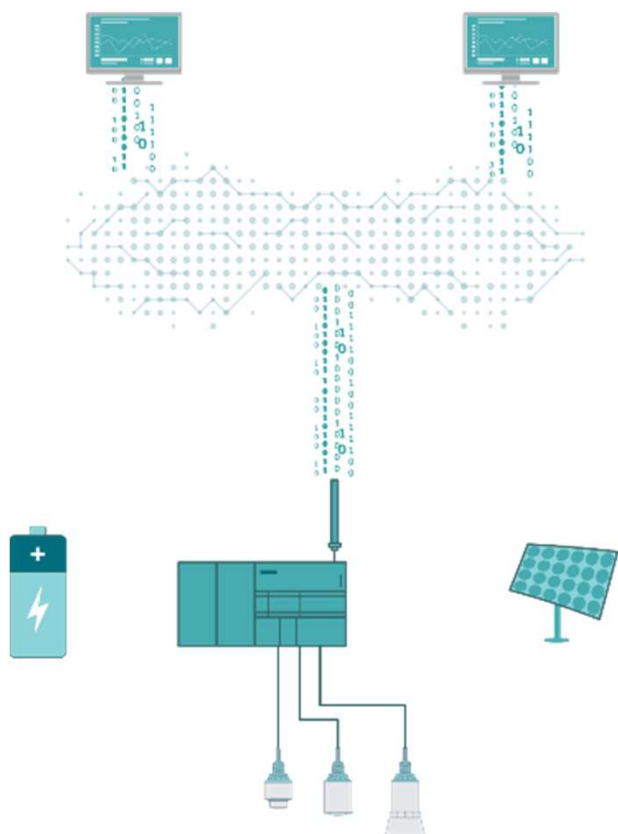




## SITRANS LR100 series

### Remote diagnostics with RTU 3030

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#### Secure industrial protocols supported

email

Telecontrol

FTP

SMS

DNP3

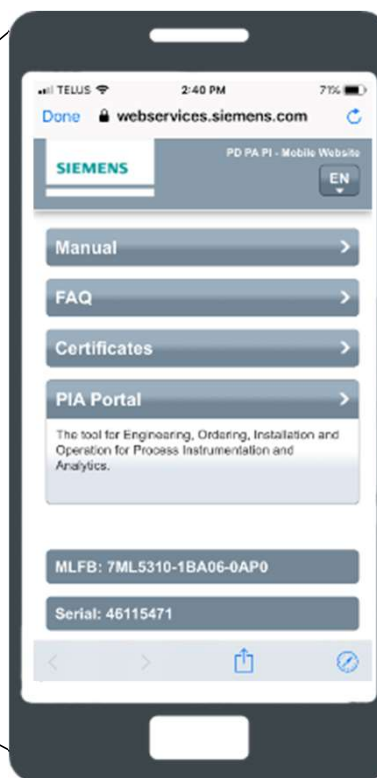
IEC



## SITRANS LR100 series

### Device-specific information at your fingertips

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#### QR code link to support site

Get critical information about your transmitter directly from the QR code, including:

- Manual
- FAQ
- Certificates
- PIA Portal
- MLFB number
- Serial number



## SITRANS LR100 series accessories



### SITRANS RD150 and level controllers

SITRANS RD150 not only displays readings from your HART instruments, it can also configure and display diagnostic Data. For more features refer to SITRANS level controllers.



### Submergence shield

Used in applications where flooding is expected.



### Mounting accessories

Pre-engineered mounting brackets remove the need for Custom designs and allows quick and easy installation on liquids applications.

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### Easy Aimers

Accurately positioning the transmitter at the correct angle for solids level measurement is easy with these Easy Aimers.



# SITRANS LR100 series

## Level measurement for general industries



### Product data overview

	SITRANS LR100	SITRANS LR110	SITRANS LR120
	7ML530	7ML531	7ML532
	Basic measurement to 8 m	Versatile version with communication and hazardous approval options and increased range to 15 m	Narrow beam and longest range version to 30 m. Submergence shield option for flooding protection
Measuring principle	78-82 GHz, FMCW	78-82 GHz, FMCW	78-82 GHz, FMCW
Measuring range	8 m (26 ft)	15 m (49 ft)	30 m (98 ft)
Process connection	Thread 1½" and 1"	Thread 1½" and 1"	Thread 1"
Process pressure	-1 to 3 bar	-1 to 3 bar	-1 to 3 bar
Process temperature	-40 to 60°C (-40 to 140°F)	-40 to 80°C (-40 to 176°F)	-40 to 80°C (-40 to 176°F)
Accuracy	5 mm (0.2")	2 mm (0.08")	2 mm (0.08")
Beam Angle	8°	8°	4°
mA/Loop, Communications	2-wire, 4 to 20 mA	2-wire, 4 to 20 mA/HART or 4-wire, Modbus	2-wire, 4 to 20 mA/HART or 4-wire, Modbus
Ex approvals	no	Gas and dust	Gas and dust



## SITRANS LR100 series Measurement through plastic vessels

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### IBC tank applications

Non-intrusive measurement through the plastic vessel top.

Wall bracket option facilitates easy installation.

SITRANS RD150 for local display option



## SITRANS LR100 series Short-medium range solids

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### Solids applications

Ultrasonic or SITRANS LR100 series are good options.

Rugged encapsulated design

Easy aimer option allows aiming to desired point on surface

Quick update rate is suitable for crushers



# Optimize processes with our automation and instrumentation portfolio

**SIEMENS**  
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Pressure  
Measurement



Temperature  
Measurement



Flow Measurement



Level Measurement



Positioners



Weight Measurement



Process Protection



Process Controllers



Process Recorders



Supplementary  
Components



Communication  
and Software



Product Solutions  
for OEM





The background of the advertisement is a complex industrial scene featuring large stainless steel tanks and intricate piping systems. Overlaid on this scene are several digital elements: a semi-transparent blue grid, binary code (0s and 1s) floating in the air, and a green line graph. Text labels like '453.6 mbar', '635 mbar', and '700 mm off' are placed near specific parts of the machinery. The Siemens logo and slogan are in the top right, and the product name and description are in a large teal box on the left.

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# SITRANS FM100

Smart and compact flow measurement

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[siemens.com/fm100](https://www.siemens.com/fm100)



## SITRANS FM100

The small and compact addition to the SITRANS F portfolio

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### SITRANS FM Portfolio

When it comes to boosting productivity, choosing the right flowmeter can make all the difference. The trusted SITRANS F product family has versatile and reliable flow measurement solutions built to suit every industry and process.



The **SITRANS FM100** is a great addition to our existing portfolio and will boost the versatility even more.

This product aims to enlarge the flow portfolio for **OEM customer** and **other applications** requiring small meters.

SITRANS FM100



## Top highlights at a glance

### The new SITRANS FM100 – ready to improve your process

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#### SITRANS FM100

##### Flexible communication



IO- Link ready or  
two freely independent  
programmable  
analogue outputs

##### Rugged design



Stainless steel housing with colored,  
multi-parameter display



##### Flow measurement



All-round flow meter, dosing function  
and bidirectional measurement  
possible

##### Temperature measurement



Additional process value with  
integrated PT1000 sensor

##### Simple Operation



Local operation via four optical touch  
keys and easy rotatable 90°



## The new flow meter offers flexible usage and simple handling

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### Top highlights



#### Feature / Function

- Flow and Temperature measurement
- IO-Link communication
- Colored display with 4 optical touch keys
- 90° rotatable display via software
- Non-resettable and resettable totalizer

#### Benefit

- Two process value for additional knowledge of application
- Easy integration and parametrization of device
- Easy and fast set-up
- User-friendly operation
- Usage with gloves possible
- Flexible installation
- Individual set-up of device
- Individual totalizer usage according to user / application



## The SITRANS FM100 shows his strengths in flexible usage across many different applications

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### Target industries / applications



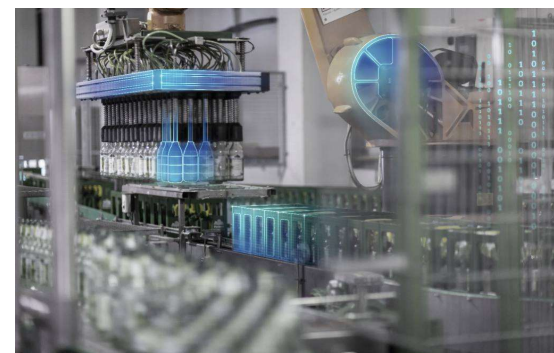
#### Water cooling cycle

- Monitoring and optimization of water usage in the process
- Temperature monitoring
- Leakage detection
- Glass cooling water control



#### Automotive

- Silicon free
- Dosing of frost protection
- Cooling of carbon fiber fabrication
- Injections for exhaust regulation



#### Dosing applications

- Flexible usage across industries
- Ideal usage in lab applications
- Injection applications for e.g. chemicals



## Make engineering and operation even simpler and reliable



### System / value-added topics



#### Easy integration



IO-Link communication for integration into control landscape

- IODD available online
- Integrated into TIA-Portal



#### QR Code



Easy and fast way to get information:

- Manuals
- FAQs
- Downloads



## SITRANS FM100

### Product data overview



	SITRANS FM100	
Process connection sizes	Threaded G1½", ¾", 1", 2"	Accessory for <i>(in planning)</i> ¼", ½" ¾", 1", 2" NPT
Measuring range	0,03 – 350 l/min	
Process temperature	-20 ° C to 70 ° C (compact) -20 ° C to 140 ° C (remote) <i>(in planning)</i>	
Accuracy	Flow: <±0.8% of reading + 0.5% of full scale Temperature: ≤±2° C (flow >0,2 m/s)	
Design	All stainless steel design (housing, electrodes, connection in 1.4404) Insulation parts PEEK	
Outputs / communication	Two configurable outputs (pulse-/frequency-/alarm- and analogue output) IO-Link	



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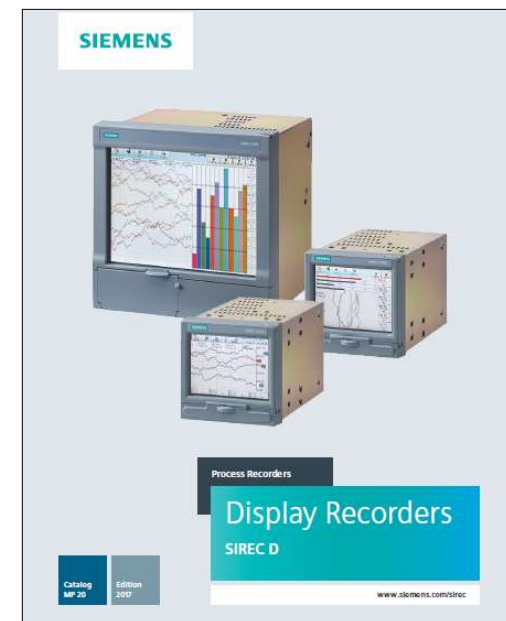
## FI01



## WT10



## MP20





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**Sizing & Calculation**

Process Instrumentation

- > Flow
- > Positioner
- > Pressure
- > Temperature

Flow



- PDF SITRANS FC & FM sizer (download)
- > SITRANS F M sizing
- PDF SITRANS F M chemical resistance chart
- PDF SITRANS F US clamp-on number conversion
- PDF SITRANS F X sizing
- PDF SITRANS F O questionnaire



**SFI Vortex Sizing**  
Desktop app



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# Hvala!

