

SIEMENS



SITRANS FCT070

Next-generation flow measurement

Now with enhanced features and orderable with just a few clicks

[siemens.com/fct070](https://www.siemens.com/fct070)

Overview

Easy to integrate and top performance –

that's the new SITRANS FCT070 Coriolis transmitter for SIMATIC ET 200SP distributed I/O. The multiparameter transmitter **can be easily integrated in the TIA Portal SIMATIC PCS 7 process control system** and simply and conveniently operated via faceplates.

SITRANS FCT070 lets you **process data in real time** and visualize all the measurement and status data from the Coriolis flowmeter. Thanks to the Digital Sensor Link, SITRANS FCT070 is compatible with all Siemens Coriolis flowmeters and ready for **real-time data exchange**.



Features and benefits

Technical data at a glance

Technology module	For SIMATIC ET 200SP Profinet	
ET 200SP Base Unit	BU 20 Typ B1	
Supported controllers	SIMATIC PCS 7 V9.0 SP2 or later TIA Portal V16 or later SIMATIC STEP 7 V5.6 SP3 or later	
Outputs	2 individually programmable outputs	
Inputs	2 individually programmable inputs	
Communication	Profinet via SIMATIC ET 200SP	
Degree of protection	IP 20	
Ambient temp.	-25°C to 50°C vertical (60°C)	
Approvals (standard version)	CE cULus EAC	Tick KCC ROHS
Approvals (Ex version)	ATEX II 3 G Ex ec IIC T... Gc IECEX Ex ec IIC T4 FM Class I, DIV 2, Group A.B.C.D Also for ATEX Zone 1 with SITRANS I300 barrier	
Power	24 V, Class 2, max. 0.5 A	

 **Easy to integrate**

in SIMATIC PCS 7 and TIA Portal

Available faceplates and drivers enable fast and cost-effective integration in SIMATIC PCS 7 and TIA Portal

 **Flexibly combinable**

with SIMATIC ET 200SP modules

Flexible combination options with a variety of distributed I/O

 **ATEX approval**

ATEX Zone 2
Also approved for Ex Zone 1 with SITRANS 1300 barrier

Simple and safe installation in hazardous areas

 **Digital Sensor Link interface**

Universally combinable with all Siemens Coriolis flowmeters via the Digital Sensor Link

 **Digital data communication**

between SIMATIC S7 and flowmeter

Faster and more secure exchange of measurement data in real time possible via Digital Sensor Link

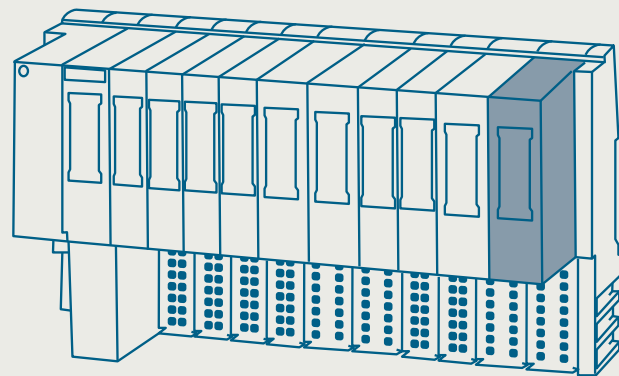


Complete racks with just a few clicks ...

TIA Selection Tool

The catalog and ordering system for automation and drive technology

If you want to order a complete rack in which SITRANS FCT070 is integrated in the controller with just a few clicks, you're in the right place!



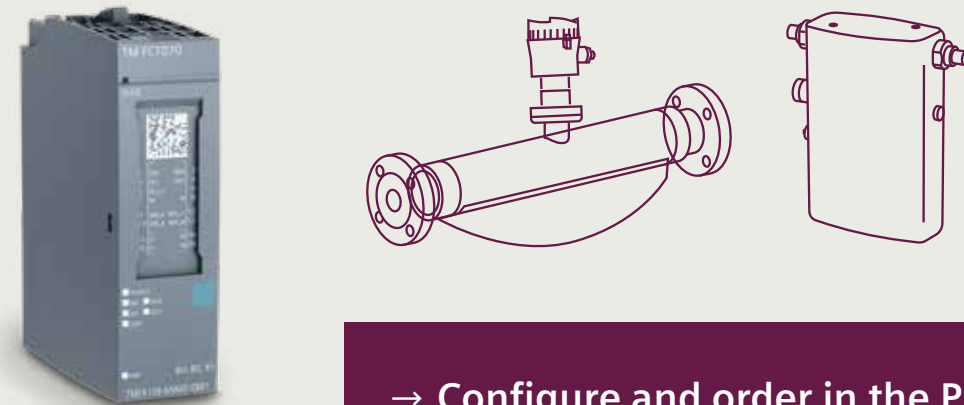
→ Configure and order in the TIA Selection Tool

... or expand existing systems:

PIA Life Cycle Portal

The tool for selection, planning, ordering, commissioning, and maintenance in process instrumentation and analytics

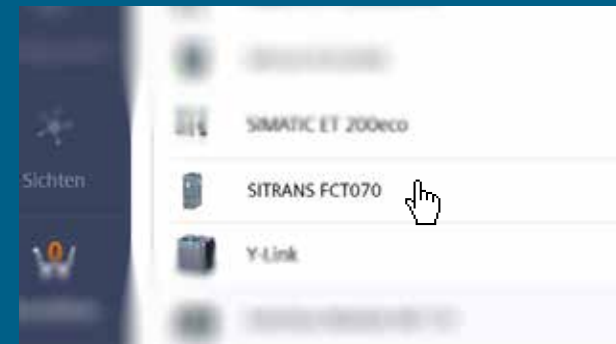
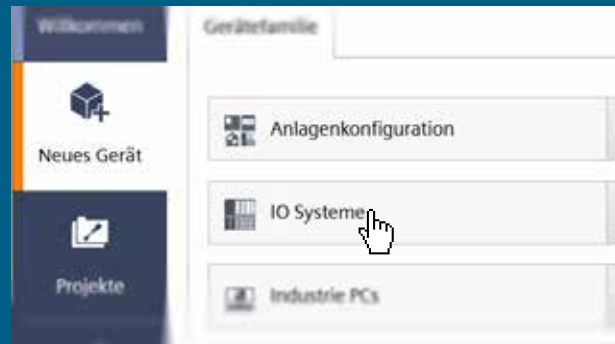
If you want to order the SITRANS FCT070 transmitter and/or flow sensors and other process instrumentation and analytics products with just a few clicks, you're in the right place!



→ Configure and order in the PIA Portal

CONFIGURE AND ORDER USING THE TIA SELECTION TOOL

SITRANS FCT070 in just a few simple steps:



Use the TIA Selection Tool to order the SITRANS FCT070 technology module for SIMATIC ET 200SP.

Order the corresponding sensors in the → [PIA Life Cycle Portal](#)

1

Select

On the left-hand side, click *New Device* and select *IO systems*.

2

Configuring

Select *SITRANS FCT070* directly.

3

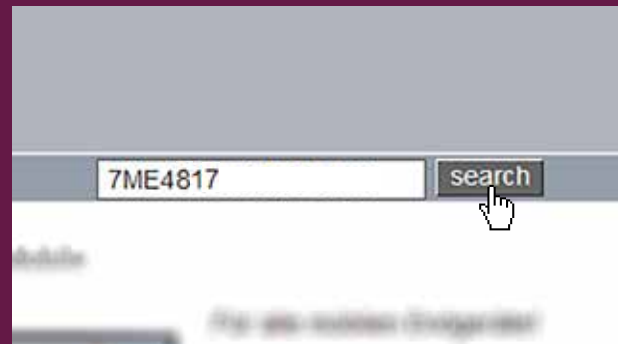
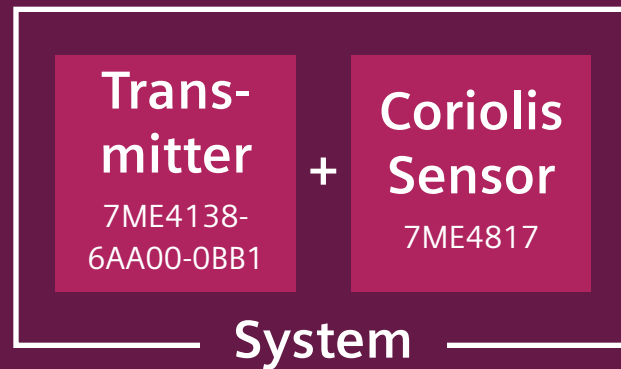
Order

You're automatically connected to the Industry Mall and your products are saved so that you can complete your order without additional effort.

[Order now!](#)

CONFIGURE AND ORDER IN THE PIA LIFE CYCLE PORTAL

The Coriolis flowmeter in just a few simple steps:



1

Select:

Enter the following MLFB numbers for the SITRANS FC sensors:

7ME4817 – SITRANS FC MASS 2100
7ME4617 – SITRANS FCS400
7ME4637 – SITRANS FCS300

2

Configure:

Then click the product number and select the order quantity and additional components.



3

Collect and order:

Collect your products in the watch list and transfer them to the Industry Mall for ordering.

You'll also find all the other process instrumentation and analytics products in the Portal.



[Order now!](#)

SITRANS sensors at a glance

SITRANS FCS300 – innovative design and stable performance



- Durable and reliable
- Available in sizes from DN15 to DN150 for maximum adaptability
- Large selection of standard flanged, threaded, and hygienic connections
- High accuracy – $\pm 0.10\%$ or $\pm 0.20\%$ achieved at up to 100 bar and 205°C
- Plug and play – with preconfigured sensor cable
- Digitally reliable – all primary process variables are digitally transferred to the transmitter
- Global service network – expert-level support whenever and wherever you need it

SITRANS FCS400 – for OEM and skids



- Permits a smaller and more efficient plant or skid layout and construction
- Available from DN15 to DN50 for maximum adaptability
- Large selection of standard flanged, threaded, and hygienic connections
- Stable measurements – high measurement frequency, high signal to noise ratio
- High capacity – flow rates from 20 kg/h to 52,000 kg/h permit applications in many processes
- High accuracy – $\pm 0.1\%$ achieved at up to 100 bar and 200°C
- Plug and play – with preconfigured sensor cable
- Digitally reliable – all primary process variables are digitally transferred to the transmitter

SITRANS FC MASS 2100 – for low flow applications



- Smallest and most stable zero point – dual-drive pick-up and driver construction facilitate ultra low-weight pipe construction
- Flexible – available from DI 1.5 to DI 15
- Optimal service life – market's largest wall thickness, corrosion resistance, and high pressure durability
- Enhanced safety – intrinsically safe EEx ia design as standard
- Highest accuracy – 4-wire Pt1000 temperature measurement for reliability in measuring mass flow, density, and % fraction; measuring range from 0 to 30 kg/h (0 to 66 lb/h)

The Siemens logo, consisting of the word "SIEMENS" in a bold, black, sans-serif font, is centered within a white rectangular box. The box is set against a dark blue background.

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