

## Flow Measurement

### SITRANS F C

#### Flowmeter SITRANS FC330

##### Overview



The complete flowmeter system SITRANS FC330 can be ordered for standard, hygienic or NAMUR service.

The flowmeter is based on the latest developments within digital signal processing technology – engineered for high measuring performance:

- Fast response to rapid changes in flow
- Fast dosing applications
- High immunity against process noise
- High turndown ratio of flowrates
- Suitable for liquid and gas service
- Easy to install, commission and maintain

FC330 is available with current output HART 7.5, Modbus RS-485 RTU, PROFIBUS DP or PROFIBUS PA as standard on Channel 1. Additional functions can be freely configured for analog, pulse, frequency, relay or status output or binary input.

The transmitter comes with a user-configurable graphical display and SensorFlash, a micro SD card for configuration backup, firmware update and data storage.

The SITRANS FC330 flowmeter system consists of a SITRANS FCS300 sensor and a SITRANS FCT030 transmitter.

##### Benefits

- It is compact and light, fitting neatly into dense piping arrangements
- Easy maintenance because modules can be exchanged rapidly
- Effective separation of measurement from plant vibration
- Highly secure operation in safety critical applications
- Non-volatile memory of all setup and operation data
- Reliable measurements due to high signal to noise ratio
- Secure, digital transfer of measurement data from the sensor
- Short overall length; easy drop-in replacement into most existing installations







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Selection and Ordering data	Order code
<b>Add-on options and accessories</b> Please add "-Z" to Article No. and specify Order code(s).	
<b>Certificates</b> Certificate EN10204-2.2 confirmation of pressure containing material Certificate EN10204-3.1 material (wetted parts) Material certificate EN 10204-3.2 with inspection Certificate NACE MR0175-2009 + MR0103-2012 Certificate EN10204-2.1 Declaration of compliance with the order Insp. Certificate EN10204-3.1 for visual, dimensional and functional test Certificate EN10204-3.1 PMI Positive material ident. of pressure-cont./wetted parts (confirmation only) Certificate EN10204-3.1 P-test Pressure-test acc. AD2000 Test pack (pressure test, non-destructive welding test, welder & welding procedure certificate) Certificate EN10204-3.1 welding X-ray / Dye-penetration test of weldings (pressure cont.) Certificate EN10204-2.1 Declaration of accuracy Certificate EN10204-3.1 PMI Positive material ident. of pressure-cont./wetted parts (including heat analysis)	<b>C01</b> <b>C02</b> <b>C03</b> <b>C04</b> <b>C05</b> <b>C06</b> <b>C07</b> <b>C08</b> <b>C09</b> <b>C10</b> <b>C11</b> <b>C12</b>
<b>Customer selected calibration</b> DN 15 ... 50: Multi-point (5 flows x 1 pass) DN 15 ... 50: Multi-point (10 flows x 1 pass) DN 80: Multi-point (5 flows x 1 pass) DN 80: Multi-point (10 flows x 1 pass) DN 100: Multi-point (5 flows x 1 pass) DN 100: Multi-point (10 flows x 1 pass) DN 150: Multi-point (5 flows x 1 pass) DN 150: Multi-point (8 flows x 1 pass)	<b>D60</b> <b>D61</b> <b>D62</b> <b>D63</b> <b>D64</b> <b>D65</b> <b>D66</b> <b>D67</b>
<b>Cable</b> None 5 m (16.4 ft), standard with M12 connectors fitted 5 m (16.4 ft), standard 10 m (32.8 ft) standard with M12 connectors fitted 10 m (32.8 ft), standard, without plugs 25 m (82 ft), standard with M12 connectors fitted 25 m (82 ft), standard, without plugs 50 m (164 ft), standard with M12 connectors fitted 50 m (164 ft), standard, without plugs 75 m (246 ft), standard with M12 connectors fitted 75 m (246 ft), standard, without plugs	<b>L50</b> <b>L51</b> <b>L52</b> <b>L55</b> <b>L56</b> <b>L59</b> <b>L60</b> <b>L63</b> <b>L64</b> <b>L67</b> <b>L68</b>
<b>Sensor options</b> FCS300 Marine approval (in preparation)	<b>S22</b>
<b>SD-Card accessibility via USB</b> (not allowed in USA by Patent)	
Mass storage enabled	<b>S30</b>
<b>Region-specific approvals and certificates</b> South Korea (KCC) (in preparation)	<b>W28</b>
<b>Additional data</b> Please add "-Z" to Article No. and specify Order code(s) and plain text.	
<b>Tag name</b> Tag name plate, stainless steel	<b>Y17</b>

### Operating instructions for SITRANS FC330

Description	Article No.
English • for firmware V 4.0 and onwards	<b>A5E44030648</b>
German • for firmware V 4.0 and onwards	<b>TBD</b>

All literature is available to download for free, in a range of languages, at [www.siemens.com/processinstrumentation/documentation](http://www.siemens.com/processinstrumentation/documentation)

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