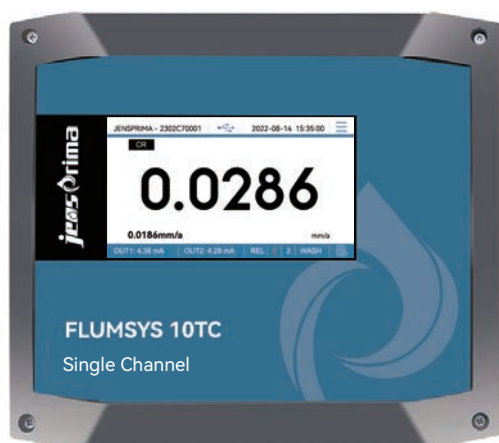


# Online Corrosion Rate Analyzer

## Flumsys 10TC-C7

The Flumsys 10TC digital controller with the innoSens 370 corrosion rate sensor measures both pitting and average corrosion rates. The Flumsys 10TC has a 4.3" colour LCD display with touch operation for easy set-up, data storage and USB stick export. The Flumsys10TC is supplied with three programmable relays and two 4-20mA outputs for control of auxiliary equipment, and Modbus RTU (RS485) communication as standard.



### Measurement parameters

Corrosion rate: 0-1 mm/a, 0-5 mm/a

### Feature

- Single channel measurement, need to select the corresponding sensor
- Wide power input, touch screen design
- 4.3" colour touch screen displays measured value, temperature and relay status
- Chinese/English menu, easy to operate
- Password protection to prevent unauthorised operation
- New calibration step-by-step prompts can help reduce operating errors
- 2x programmable Hi/Lo relay outputs
- Programmable auto-purge relay outputs
- 2x isolated 4-20mA outputs
- RS485 Modbus RTU communication
- Data storage function, support for USB stick data export

### innoSens 370 Corrosion Rate Sensor

• Range: 0-1 mm/a, 0-5 mm/a, Simultaneous measurement of pitting and average corrosion, Combined Linear Polarisation Resistance (LPR) and AC Impedance Spectral Analysis (EIS) technology, Internal signal isolation technology, strong interference, Conductivity independent, anti-polarisation, Stainless steel 316L. IP68 waterproof standard, Low drift, small size, fast response, Stable performance, long service life.

Measurement principle:	LPR (polarisation resistance method) and EIS (spectral method)
Measuring range:	0-1 mm/a, 0-5 mm/a
Resolution:	0.0001 mm/a
Repeatability:	±0.001 mm/a
Response time:	50s (default)
Sensor drift:	≤0.3%FS/24h
Working temperature:	0-60°C, higher temperature need to be customised
Probe material:	stainless steel, carbon steel, etc. (according to the pipe material selection)
Cable length:	5m as standard
Protection class:	IP68



### Technical parameters

Display:	4.3" colour LCD touch screen display
Language:	Chinese/English
Password:	Setup mode: 0022, Calibration mode: 0011
Power supply:	110-240VAC, 50/60Hz; 24VDC Optional
Current output 1:	Isolated 4-20mA output, measurable value can be set, maximum load 500Ω.
Current output 2:	Isolated 4-20mA output, measurable value can be set, maximum load 500Ω.
Digital communication:	RS485 Modbus RTU
Alarm output:	2 sets of programmable Hi/Lo contacts with hysteresis setting 5A/250VAC/30VDC
Cleaning relay:	Cleaning interval: 0.1-1000h, Cleaning time: 1-1000S
Working temperature:	0-70.0°C
Storage temperature:	-20-70.0°C
Protection class:	IP65
Installation:	Wall mounting
Size:	200×180×90mm
Weight:	ca.1kg

### Order Guide

Order No.

Flumsys 10TC — **C** **7** — **□**

Measurement Parameters      Power supply type  
A 220VAC  
B 24VDC

For example, if you select Corrosion Rate Sensor 220VAC, the model number is Flumsys 10TC-C7-A.

Order No.	Description
35-0370-00	innoSens 370 Corrosion Rate Sensor, cable 5m

