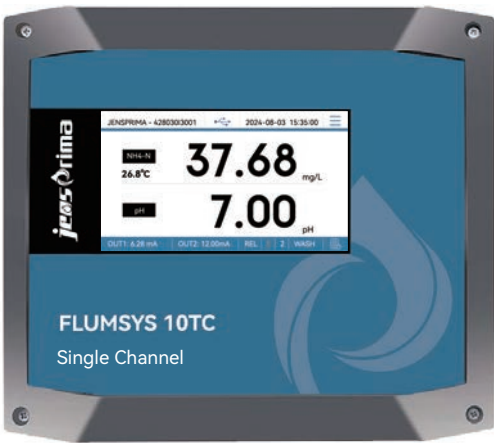


# Online Ammonia Analyzer

## Flumsys 10TC-I3

The Flumsys 10TC Single Channel Digital Controller is designed to measure a range of water quality parameters relevant to the water treatment industry and can be customised to measure a single parameter, supporting JENSPRIMA sensors only. The 4.3" colour LCD display is touch operated and very easy to set up. This series controller has data storage function, support USB Disk data export. Provides three programmable relays and two 4-20mA outputs for controlling auxiliary equipment, RS485 Modbus RTU communication is standard.



### innoSens 550 Ammonia Electrode

● The innoSens 550 ammonia nitrogen electrode uses the ion-selective electrode method to measure the concentration of ammonia nitrogen in water. The ammonia ion-selective electrode is used to directly detect ammonium ions in the water environment to determine the concentration of ammonia nitrogen. The ammonia nitrogen sensor uses a pH electrode as a reference electrode, resulting in better stability. The sensor is also susceptible to interference from potassium ions, so when the potassium ion concentration in water is high, an optional potassium ion electrode is available for automatic compensation. The innoSens 550 ammonia sensor consists of an ammonium ion electrode, a potassium ion electrode (optional), a pH electrode and a temperature electrode in a single sensor, which can be used to correct for each other and for multiple parameters at the same time.

Measuring range: NH<sub>4</sub>-N: 0.1-1000 mg/L  
pH: 5 - 10 pH  
Temperature: 0 - 40°C

Accuracy: NH<sub>4</sub>-N: ±5% of measured value  
pH: ±0.1 pH  
Temperature: ±0.2°C

Repeatability: ±3% of measured value

Response time: <2min

Lifetime: 6 months for diaphragm,  
3 months for electrolyte

Working temp: 2-40°C

Protection class: IP68

Dimensions: φ62mm×353mm



| Order No.  | Description                                      |
|------------|--------------------------------------------------|
| 35-0550-00 | innoSens 550-R1 Ammonia Electrode, Cable 10m     |
| 35-0550-10 | innoSens 550-R2 Ammonia/Potassium Ion, Cable 10m |

### Measurement parameters

NH<sub>4</sub>-N: 0.1-1000 mg/L

### Feature

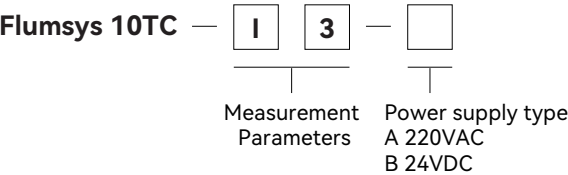
- Single channel measurement, need to select the corresponding sensor
- Wide power input, touch screen design
- 4.3" colour touch screen displays measured value, temperature and relay status
- Chinese/English menu, easy to operate
- Password protection to prevent unauthorised operation
- New calibration 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

### 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.



For example, if you select ammonia electrode, 220VAC, the model number is Flumsys 10TC-I3-A.