Conventional Five-Parameter Water Quality Analyser

Flumsys 10MT

The Flumsys 10MT multi-parameter controller can be used to simultaneously monitor multiple parameters including: pH, conductivity, dissolved oxygen, turbidity and temperature online through optional sensors according to the customer's requirements. Other measurement parameters can also be extended according to customer requirements. The 7" touch screen controller is easy to operate, easy to install and plug and play for sensors. Data storage function and U-disk export support. RS485 Modbus RTU communication as standard, with optional data telemetry module.

Measurement parameters

pH
Conductivity
Dissolved oxygen
Turbidity
Temperature
Other parameters extendable



Applications

Surface water
Drinking water sources
Groundwater
Aquaculture
Online water quality monitoring for industrial sectors

Features



- **Flexible configuration of measurement parameters**
  5 water quality parameters including pH, conductivity, dissolved oxygen, turbidity and temperature can be continuously monitored. Other parameters are customised as required.
- **Modular design**
  Analogue sensors can be configured with different modules depending on the sensor type.
- **Sensor plug and play, automatic recognition by the controller**
- **Imported sensors with good repeatability and stability**
  The pH sensor uses a PTFE diaphragm for greater resistance to contamination.
  The conductivity sensor is a two-stage type with stable and reliable measurement.
  The dissolved oxygen sensor uses fluorescence method technology, which is basically maintenance-free and comes with NTC temperature compensation function.
  The turbidity sensor complies with ISO 7027 standard method and is not disturbed by the colour of the sample
- **Optional air automatic cleaning function**
  IOptional automatic air cleaning device with timed probe flush
- **7" colour touch screen, simple and easy to operate**
  Chinese/English menu for quick set-up and calibration. Data storage, access and USB stick export functions.
- **IP65 degree of protection**
  Suitable for various indoor and outdoor installation environments.
- **Standard RS485 Modbus RTU communication**
- **Optional wireless transmission module + cloud platform**
  Optional WIFI/GPRS 4G wireless transmission module, mobile phone APP, web page for real-time data, historical data.

Technical parameter

Power supply :	110-240VAC，50/60Hz
Power consumption:	<20W
Digital output:	standard RS485 Modbus RTU
Wireless transmission:	optional wireless transmission module + cloud platform
Display:	7" colour LCD touch screen with LED backlight
Resolution:	800*480
Data storage:	Historical data can be queried, support U disk export
Storage interval:	Can be set from 1-3600s, default 10s
Case material:	ABS/PC
Storage temperature:	-20-70℃
Operating temperature:	0-60℃
Dimensions:	229 x 203 x 99 mm
Protection class:	IP65
Weight:	Ca.1.5Kg

Measurement range

pH	Measurement principle: Measurement range: Resolution: Accurate: Response time:	Glass Electrode 0-14pH，-2000-2000mV 0.01pH，1mV ±0.01pH，±1mV ≤30s	
Conductivity	Measurement principle: Measurement range: Resolution: Accurate: Response time:	Two-stage 0-2000uS/cm 0.01uS/cm ±1%f.s. ≤30s	
Dissolved Oxygen	Measurement principle: Measurement range: Resolution: Accurate: Response time:	Fluorescence 0-20.00mg/L 0.01mg/L ±0.1ppm/±1% ≤30s	
Turbidity	Measurement principle: Measurement range: Resolution: Accurate: Response time:	90°scattered light 0-100NTU/0-4000NTU 0.001/0.01/0.1NTU，Depend on the measuring range ±2% of reading ≤30s	
Temp	Measurement principle: Measurement range: Resolution: Accurate: Response time:	Thermistor Method 0-100℃ 0.1℃ ±0.2℃ ≤30s	
Free Chlorine Chlorine Dioxide	Measurement principle: Measurement range: Resolution: Accurate: Response time:	Constant Voltage Method 0-2.000/0-20.00mg/lL 0.001/0.01mg/L ±2%f.s. ≤30s	

***Digital Water Quality Sensors Technical Data Consult JENSPRIMA Inc.**

Order Guide

Item No.	Measurement Parameters	Additional Parameters		Signal Transfer
Flumsys 10MT — ☐		☐	☐	☐
Five parameters:	pH, conductivity, dissolved oxygen, high-range turbidity, temperature.	0 NO	0 NO	R RS485 Modbus RTU
	pH, conductivity, dissolved oxygen, Low-range turbidity, temperature.	1 Cl2	1 chromaticity	G Wireless Transmission
	Other customised	2 ClO2		A APP+Cloud Platform