

Digital Suspended Solids/Sludge Concentration Analyzer

This digital controller can be used with a SS sensor to measure the concentration of suspended solids in water, or a MLSS sensor to measure the concentration of activated sludge in sewage.

Application:

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|---------------------------------|------------------|-----------------|-----------------------------|
| ◇ Wastewater treatment plant | ◇ Waterworks | ◇ Surface water | ◇ Semiconductor |
| ◇ Environmental water treatment | ◇ Paper industry | ◇ Mining | ◇ Metallurgical Electronics |

Digital SS/MLSS Controller



Features & Advantages

- Compatible with all DRFN digital suspended solids or sludge concentration sensors;
- Separately have a list of controller and sensor settings for quick and detailed parameter setting;
- The working status of the sensor can be queried, including reading the serial number;
- Support a variety of installation methods;
- Time and historical data recording function;
- 3.2-inch large LCD screen;
- User-friendly Chinese and English language interface;
- Password can be set to prevent misoperation;
- 2 SPST multi-function and settable relays;
- Two 0/4~20mA active current loop outputs;
- RS485 interface, Modbus RTU communication protocol;
- IP66 waterproof level, sealed enclosure can isolate pollution and corrosive gas;
- OTA download technology as a smart configuration option for the instrument;

Specification & Model

Model	DUC2-SS-H-A	DUC2-SS-H-D	DUC2-SS-S-A	DUC2-SS-S-D
Software Version	DRFN SS(sludge concentration) Analysis software V1.0			
Sensor Input	Compatible with all DRFN's SS(sludge concentration) Digital Sensors			
Display Range	0.01mg/L~100g/L			
Resolution	0.01mg/L			
Relay Control	2 settable SPST relays with a maximum load of 3A/250VAC			
Analog Current Output	2 settable 0/4~20mA current outputs with a maximum load of 1000Ω			
Communication Method	Two-wire RS485 interface MODBUS RTU support JSON text data format			
OTA	—	—	Default WIFI	Default WIFI
Display Screen	128*64 black-and-white graphic lattice LCD adjustable backlight mode adjustable display rate			
Configuration Information	Power off protection, parameters are retained indefinitely			
Time/Data Record	Year/month/day/hour/min/second, record 14000 historical data record interval can be set between 1~999 minutes			
Maintenance Records	Last 100 times			
Protection Level	IP66			
Operating Environment	0~60°C, RH<95% (no condensation)			
Storage Environment	-20~70°C, RH<55% RH(no condensation, precision instruments)			
Shell Material	Enhanced ABS			
Dimension	144*144*120 mm			
Mounting Method	Wall mounting, pipe clamping, panel installation (hole size 138*138 mm)			
Electrical Interface	The back end reserved 3 M12*1.5 Gram head, line diameter 3~6.5 mm			
Power Supply	100~240VAC	18~36VDC	100~240VAC	18~36VDC
Power Consumption	About 12W			
Weight	About 800g			