



i-SCU



Smart Control Unit

Smart Control Unit (SCU) Merupakan Platform lengkap sebuah general purpose logger yang menggunakan telemetri seluler sebagai media transmisi. Sistem ini mengintegrasikan Logger, GSM Modem, Solar Charger Controller dan cycles use Battery. Sistem ini dirancang untuk dapat menggunakan sistem catu daya panel surya sebagai energi utama.



FFWS
(Flood Forecasting & Warning System)
SCU-1410R1

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Channel :

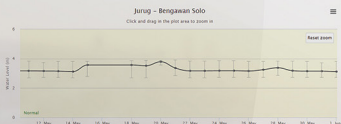


Data Level Air SCU

RID	Measurement Time	Water Level (m)	Turbidity (NTU)	Konductivity (mmhos)
29873	2015-04-29 00:00	3.20	0.00	0.00
29874	2015-04-29 00:00	3.22	0.00	0.00
29875	2015-04-30 00:00	3.14	0.00	0.00
29876	2015-05-01 00:00	3.20	0.00	0.00
29877	2015-05-02 00:00	3.32	0.00	0.00
29878	2015-05-03 00:00	3.17	0.00	0.00
29879	2015-05-04 00:00	3.19	0.00	0.00
29880	2015-05-05 00:00	3.18	0.00	0.00
29881	2015-05-06 00:00	3.14	0.00	0.00
29882	2015-05-07 00:00	3.18	0.00	0.00
29883	2015-05-08 00:00	3.18	0.00	0.00
29884	2015-05-09 00:00	3.19	0.00	0.00
29885	2015-05-10 00:00	3.17	0.00	0.00
29886	2015-05-11 00:00	3.17	0.00	0.00

Grafik SCU

Jurug - Bengawan Solo



Fitur

- Kompatibel dengan berbagai jenis sensor
- 8 analog, 8 digital input dan 8 I/O
- Transmisi data melalui jaringan selular
- Catu daya dengan back up 3 hari otonomi baterai
- Praktis dan mudah dalam Instalasi

Spesifikasi Teknis

Parameter	Spesifikasi
UMUM	
Sistem	Sistem merupakan <i>Integrasi perangkat Utama dalam satu Box</i> yang terdiri dari Data Logger, Modem GSM, Catu Daya (Solar Charger Controller dan Battery)
DATA LOGGER	
I/O Port	
Analogue input	8 Units, analog input must capable to measure with voltage sensing 0-5VDC or current sensing 4-20mA
ADC	10 bits
Digital input	8 Units, optical isolated
Digital input/output	Input 8, optical isolated Output 8, open/close relay max. 30VDC/AC
Communication Port	
I2C bus	2 Unit
RS-232	2 units
Ethernet 10Base-T	1 unit
Processor	ATMEGA 128 RISC processor
Memory	ATMEGA 128 RISC processor
Flash	128 Kilo Byte
EEPROM	4 Kilo Byte
RAM	32 Kilo Byte
External Memory	1 Giga Byte (minimum)
Display	LCD 2x16 Characters
Supports Unit	RTC (Real Time Clock)
	Watchdog timer
	ISP (In-System Programming)
	RTOS (Real Time Operating System)
	Text based console configuration
Optional	NMS (Network Management System)
	SNMP (Simple Network Management Protocol)
	Multi-trap Server destination
	Local & Remote Access

Parameter	Spesifikasi
MODEM	
Modem	Standard AT Command GSM/CDMA with RS-232 Interface
Modem	6-30 VDC Supply
SMS Data Transfer	Polling, Scheduling, Event
	Protocol & Data Format compatible with Tech4Water
POWER SUPPLY	
Working Voltage	Nominal 12VDC
Solar Panel	50Wp
Solar Charger Controller	10 Amp
Battery	Dry Battery 12V/12Ah @20 Hour Rate, and 3 days autonomy without Sun / charging
MECHANICAL	
Dimension	Typical 600x600x300mm
Components Placement	DIN Rail system
Cooling System	Natural Cooling (tanpa Fan)
Material Box	Rugged Metal Painted Powder Coated
Degree of Protection	IP54
Operation Temperature	10 – 55°C
TKDN	
TKDN	37,14%