

ZSRTU - COMPACT REMOTE CONTROL UNIT

Remote driving and supervisory controlling smart microcontroller for DAQ and automation PLC tasks. Basic assembled unit: 8 + 8 digital inputs with external/internal sensors supply, 4 + 4 digital relay outputs SPDT reach 5A 250Vac, 2 + 2 analog inputs resolution 14-bit power loop, 1 + 1 analog outputs 12 bit resolution voltage / current. Upgrade expansions by DIN modules. 3 serial communication ports: 1 Ethernet 10 BaseT interface of the control system with SCADA using OPC or applications with Java/VB/Windows. Added protocols such as MODBUS, TCP/IP, FTP. Modem GSM/GPRS dual band (optional PSTN port).



Applications

- Environmental monitoring
- water and sanitation monitoring
- Gas control and management of energy

TECHNICAL SPECIFICATIONS

Power supply:	10-30 Vdc Power consumption 7 W 15 W min max 11 W (GSM idle)				
Status Indicators / MODEM:	Internal supplies / - Link Ethernet - Power - Error - Run				
Category / protection:	Contamination Level II. 2, Protection degree IP20				
Temperature /%RH:	Operative -10..55°C (recommended), 30..90% RH @+40 ° C (non-condensing)				
Dimensions and weight:	185 x 242 x 36.90 mm, 875 g				
Casing:	Aluminum				
Connections:	Removable screw terminals for cables up to 2.5 mm²				
Serial port	1	1	1	1	1
	Ethernet	internal modem	RS232/RS485 programmable	RS485 Modbus for expansions	RS232 Debug/User
GSM / GPRS:	Dual band GSM 900/1800 MHz (optional tri-band), Data, voice, SMS and fax speeds up to 57.6 kbps, Full type approval, GPRS class 8 (option class 10). Compliant to GSM phase 2/2+				
Processing:	CPU iP RISC 32 bit – 20 MIPS				
Memory:	Flash 16 MB (data), 8 MB RAM, 64 retentive variables, cycle time 2.5 ms / K				
System protocol:	PPP (Point to Point Protocol); HTTP (HyperText Transfer Protocol) for control, configuration and file transfers over TCP-IP; FTP (File Transfer Protocol); SMTP (Simple Mail Transfer Protocol), management and outgoing email; MODBUS RTU Master (RS485) / Master-Slave (RS232 / RS485); MODBUS TCP / IP				
Digital Input:	8 (+8) powered indoor / outdoor, Isolated in groups of 8 and other circuits 1500 Vac, LED indication, protection against reverse polarity				
Analog Input:	2 (+2) 14-bit, isolated from each other and from other circuits 1500 Vac voltage (0..5 / 0..10 / 1..5 / 2..10 V), current (0..20 / 4..20 mA), selectable loop power supply, protection according to EN61000-4				
Digital Output:	4 (+4) floating contacts (relays), SPDT (exchange), range 5 A 250 Vac, galvanic isolation of each channel, LED indication				
Analog Output:	1 (+1) to 12 bits, isolated from each other and from other circuits to 1,500 Vac voltage (0..10 / 2..10 V), impressed current (0..20 / 4..20 mA), protection the load used in case of failure of the same output				
Software:	- Z-NET configurator			- PLC (ISAGRAF IEC1131 standard)	
	- Web server: supervision,			- Datalogger trend	
	- Z-NET RTU (remote control)			- OPC Server (data interchange)	
CE Norms	EN50081-2 ; 55011 ; 50082-2 ; 61000-2-2/4 ; 50140/141 ; 61010-1 ; 60742 ; 61000-6-2				
Full I/O Option:	16 DI, 4 AI, 8 DO, 2 AO				
Modem Option:	PSTN				
Other features:	Battery for clock and retentive variables, measurement of the supply voltage				



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