



ICU functions:

- Supervision of external and auxiliary equipment on a remote radio site
- Monitored from Jotron RACS III
- Alarm indication available via SMS message

ICU – Interface Control Unit



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▶ Interface Control Unit

GENERAL SPECIFICATIONS

Cabinet radiation	Meet or exceeds EN 300113 – 1
Power supply	90VAC – 260VAC, 24VDC +30%/-10%
Operating Temperature range	-20 to +55°C
Storage Temperature range	-40 to +70°C
Interfaces	1 x Ethernet 1 x RS-232 1 x RS-485 14 Analog inputs 18 Digital inputs 14 Digital outputs 7 Current inputs GSM messaging (optional)

DETAILED SPECIFICATIONS

Ethernet	
Ethernet speed	10/100 Mbps, RJ45
Protection	1.5 KV magnetic isolation
Protocols	TCP/IP, SNMP, HTTP
Serial Interface	
Interface	RS-232 (2-wire): Rx, Tx, GND RS-485 (2-wire): Data+, Data-, GND
Digital Inputs	
Number of digital inputs	18
Dry Contact	Short to GND or open (ISO_GND to DI)
Wet Contact	0 to 1 VDC or 5 to 50 VDC (DI_COM to DI)
Active level	Configurable active high or active low
Optical Isolation	2000 VRMS / 3000 VDC
Digital Outputs	
Number of digital outputs	14 (sink type)
On-state Voltage	Max. 50 VDC
Output Current Rating	Max. 200 mA per channel
Protection	Over current limit: 280 mA/channel
Optical Isolation	2000 VRMS / 3000 VDC
Active level	Configurable active high or active low
Analog Inputs	
Number of analog inputs	14
Signal input range	-50V to 0V or 0V to +50V
Input impedance	13 K Ω
Sampling Rate	10 samples/sec
Accuracy	+/- 0.1% FSR @ 25°C +/- 0.3% FSR @ -10 and 60°C
Resolution	16-bit
Current inputs	
Number of current inputs	7
Input impedance	150 Ω
Max. Input current	20 mA
Sampling Rate	10 samples/sec
Accuracy	+/- 0.1% FSR @ 25°C +/- 0.3% FSR @ -10 and 60°C
Resolution	16-bit
GSM Messaging (optional)	
Working frequencies	850/900/1800/1900 MHz
SIM card reader	Internal
Antenna connector	SMA 50 Ω

Alarm interface

The ICU used as an alarm interface can receive up to 18 digital inputs, 14 analog inputs, 7 current inputs and make this information remotely available. These inputs can be connected to various sensors to monitor the ground radio installation or building conditions.

Remote Control

The ICU is intended to provide remote interface for ground station control, thus it has an ethernet connection to facilitate communication. The ICU and all of its functions can be remotely managed over SNMP using the particular MIB.

GSM connectivity

There is an optional GSM module available as an add-on for the ICU. The purpose of this module is to deliver alarm messages from the ground station via SMS messages to the responsible personnel.



Agent/Distributor:

Jotron AS reserves the right to change the design and/or specifications at any time without prior notice. Reservations are also taken towards any general errors that may occur.

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