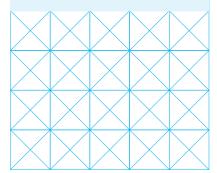




- Extensive built-in self test
- Prepared for online remote diagnostics
- Bookable from file server or local flash memory
- Hot swap in redundant applications, dual triple hot standby redundancy, 1002
- Easy installation and replacement
- Simple and safe FW upgrade
- Status LED





## RCU602-Remote Controller Unit

RCU602 is a high performance, general purpose, real-time process control computer for use in a wide variety of KM system applications in both on and offshore installations. The processor core is an embedded Power PCTM architecture. The unit is prepared for single, dual and triple unit redundancy topologies.

## **Functions**

- · Dual ethernet LAN process network
- Dual Redundancy Net interface for redundant RCU configuration
- Dual field networks for interfacing 3rd party ethernet field devices
- Dual Remote I/O process BUS (RBUS)
- Four general purpose Digital Input channels
- Four general purpose Digital Output channels
- One Watch Dog Digital Output channel
- 24 serial lines for 3rd party interface via RSER200
- · Two PROFIBUS channels for 3rd party interface
- · Two CANBUS channels for 3rd party interface

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## TECHNICAL DATA

KM Article number RCU602: 383962

Electrical

Input supply voltage:

24 VDC (18-31.2 V)

Nominal current

Max 0 75 A consupmtion: Max. 2.8 A Start-up current: Power consumption: Max. 20 W

Power connectors:

• Screw terminals • Cable cross-section:

 $2.5 \, \text{mm}^2$ 

• Max. torque 0.4-0.5 Nm Power:

• Redundant power input with power alarm monitoring

• Inrush current and overvoltage protection • Enhanced watchdog with fail-safe function and system status output

Compliant to the following protocols

• Modbus (Serial and TCP)

NMFA 0183

• PROFIBUS/PROFIsafe

CAN

• 3rd party vendor-specific protocols are available

upon request

RBUS interface

RBUS connectors: 2 x shielded RJ45 modular

jack

LAN interface

Process network: 2 x RJ45 Ethernet IEE 802.3

type 10BASE-T/100BASE-TX

Field network: 2 x RJ45 Ethernet IEE 802.3

type 10BASE-T/100BASE-TX

Redundancy Ethernet:  $2 \times RJ45$  Ethernet IEE 802.3

type 100BASE-T/1000BASE-T

General purpose I/O channels

Digital Output: 4 x opto-isolated outputs

Max. 30 mA

1 x opto-isolated watchdog (for external interface)

Max. 30 mA

Digital Input: 4 x opto-isolated inputs

I/O connectors: Cage clamps

Cable cross-section:

 $0.75 \text{ mm}^2$ 

Field interface

CAN interface: 2 x CANopen/DeviceNet

Bus connectors: • 5 pole cage clamps

• Cable cross section:

2.5 mm<sup>2</sup>

Bit rate: Max. 1 Mb/s (DeviceNet not

defined above 500 kb/s)

PROFIBUS interface: 2 x opto isolated 9 pin

female D-Sub connectors

Max. 12 Mb/s Bit rate:

Serial line

Channels: 24 insulated serial lines

via RSER200 modules. Distributed on 6 shielded RJ45 modular jack

connectors

Physical layer on

RSER200:

RS232, RS422, RS485 and

NMEA 0183 multidrop via

RSER200-4

Bit rate per channel: Max. 115 kb/s Compliance • IACS E10

• DnV GL 2.4

• IEC 60945

 RoHS Directive 2011/65/EU • EMC Directive 2014/30/EU

Process and memory

Processor type: Power PC Host processor

P2041

1.5 GHz Clock frequency:

Memory: RAM: 2 GB

Flash: 256 MB for applica-

tion use

**Environmental specifications** 

Ambient temp. and humidity:

-15°C to +70°C Temp. operation: Temp. storage: -25°C to +70°C

Humidity operation: Up to 95% RH Humidity storage: Up to 95% RH

Protection standards: IP 20 (IEC 60529)

Mechanical

HxWxD: 355x158x87 mm

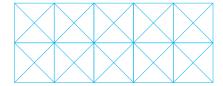
Weight:  $1.34 \, \text{kg}$ 

DIN rail vertical

mounted: 35 7.5/15

Failure rate

MTBF (SN29500/40°C): 22 years



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