



KONGSBERG

# TECHNICAL INFORMATION

## MS1000 USB ROTATOR INTERFACE UNIT

P/N 901-60270000

Specifications subject to change without notice  
901-60277902

KONGSBERG MESOTECH LTD. 1598 Kebet Way, Port Coquitlam B.C. Canada V3C 5M5  
Tel: (604) 464 8144 Fax: (604) 941 5423

## **KONGSBERG MESOTECH LTD.**

### **WARRANTY STATEMENT**

Effective January 1, 2006

Kongsberg Mesotech Ltd. warrants that its products are free from defective materials and/or workmanship for a period of 24 months from the date of receipt of goods by the end user, or 30 months from date of product shipment from the manufacturing facility (whichever occurs first). Kongsberg Mesotech Ltd. will - at no charge - repair or replace (at its option) any part(s) determined to be defective of workmanship or materials, provided the warranty claim is made to either the manufacturing facility or its authorized repair centres within the warranty period.

The purchaser is responsible for the examination of the product upon receipt. The purchaser is required to report any irregularity to received Kongsberg Mesotech Ltd. goods to either the manufacturer, its Sister companies or its Agents, within 15 days of receipt of goods. Proof of date received may be required.

The warranty is void if warranty labels are broken; Kongsberg Mesotech Ltd. will not warrant any product which is physically damaged, abused, altered, subjected to accident or negligence or misuse, or is incorrectly installed or used by the purchaser - or purchaser's representative.

Consumable items (including lamps, fuses, and worn O rings or shaft-seals) are excluded by the warranty.

All Product/Equipment being returned for warranty, repair/replacement shall have freight costs "prepaid". All warranty Product/Equipment being returned to the customer will be freight charges "prepaid" by Kongsberg Mesotech Ltd.

NOTE: Shipping method and carrier for warranty returned items will be at the discretion of Kongsberg Mesotech Ltd.

A Kongsberg Mesotech Ltd. Warranty Claim form must be completed and submitted to KML Service Department prior to warranty claim acceptance.

Kongsberg Mesotech Ltd. cannot warrant that its products are suitable for any particular or intended purpose. No other warranty is expressed or implied; Kongsberg Mesotech Ltd. accepts no liability on consequential damages – these include, but are not limited to: loss of profit, property damage and personal injury.

The maximum liability shall not, in any case, exceed the price of the product claimed to be defective.

# MS1000 USB Rotator Interface Unit



**P/N 901-60270000**

**KONGSBERG**

The MS1000 USB Rotator Interface Unit provides an isolated interface between the USB port of a desktop or laptop PC running the MS1000 software processor and Kongsberg Mesotech rotator units with RS485 *digital* telemetry. A 19" rack mounting kit is available for this unit.

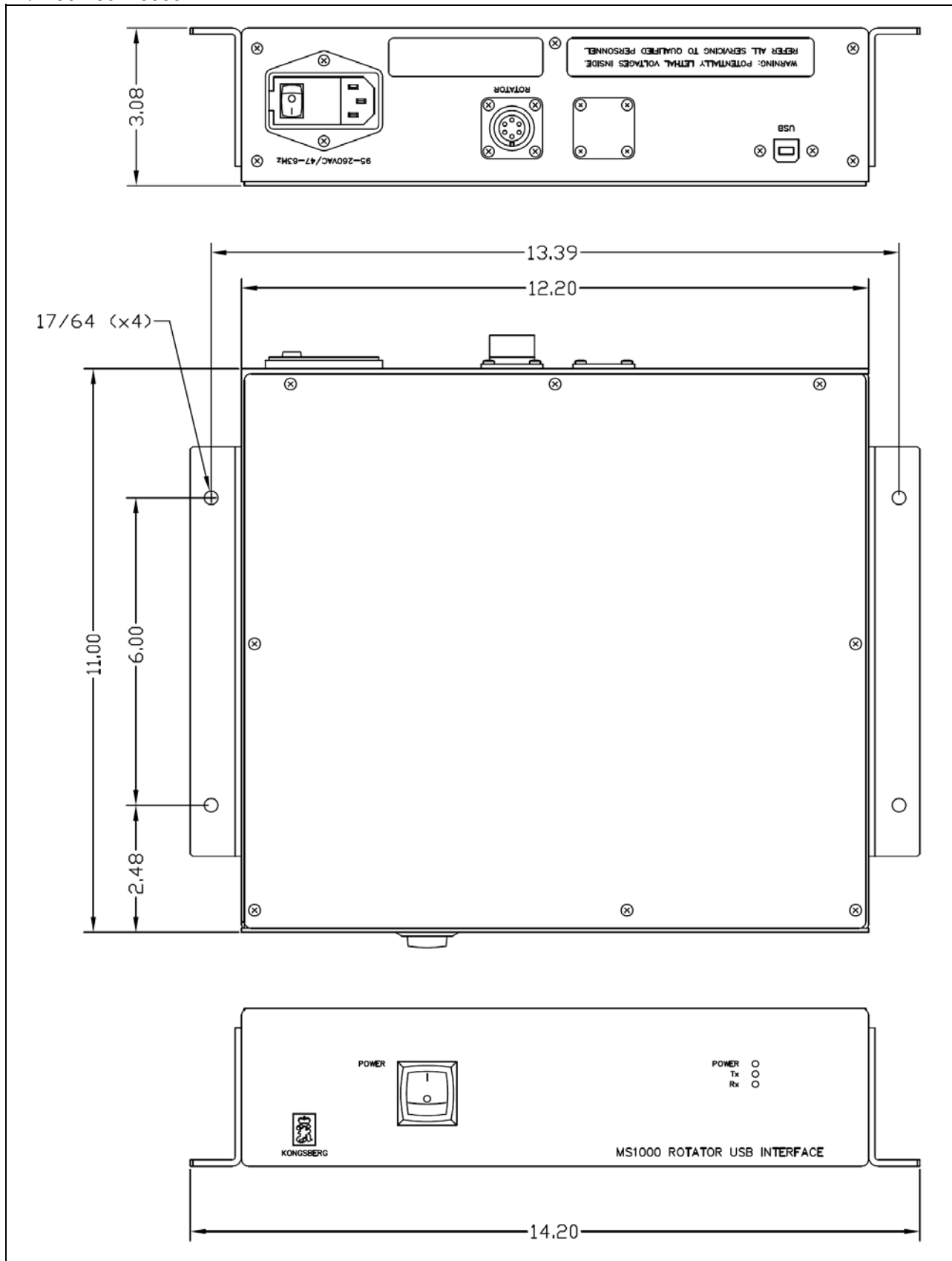
Input Voltage:	95 to 260 VAC / 47 to 63 Hz
Output Voltage:	26VDC @ 4A
PC Telemetry Interface:	USB
Rotator Telemetry Interface:	RS485
Downlink Data Rate:	Up to 460 kbps (as configured in the MS1000 software)
Uplink Data Rate:	Up to 460 kbps (as configured in the MS1000 software)
LED Indicators:	Power, Tx, Rx
Temperature Range:	0° to 40°C operating 0° to 50°C storage
Dimensions:	Height 3.08"/79mm Width 12.20"/310mm (excluding mounting brackets) Depth 11.00"/280mm (excluding connectors)
Weight:	6.5 lbs/2.9 kg

Specifications subject to change without notice

P/N 901-60277901 Iss 1.1

**KONGSBERG MESOTECH LTD. 1598 Kebet Way, Port Coquitlam B.C. Canada V3C 5M5**

**Tel: (604) 464 8144 Fax: (604) 941 5423**

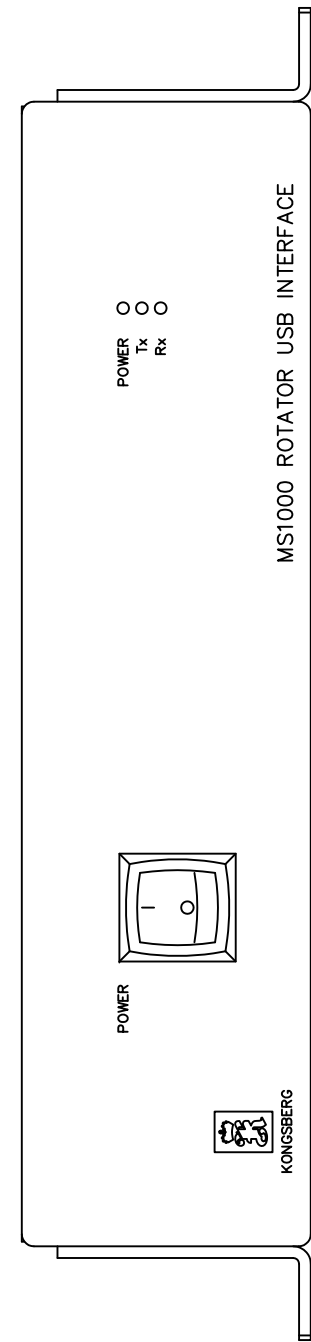
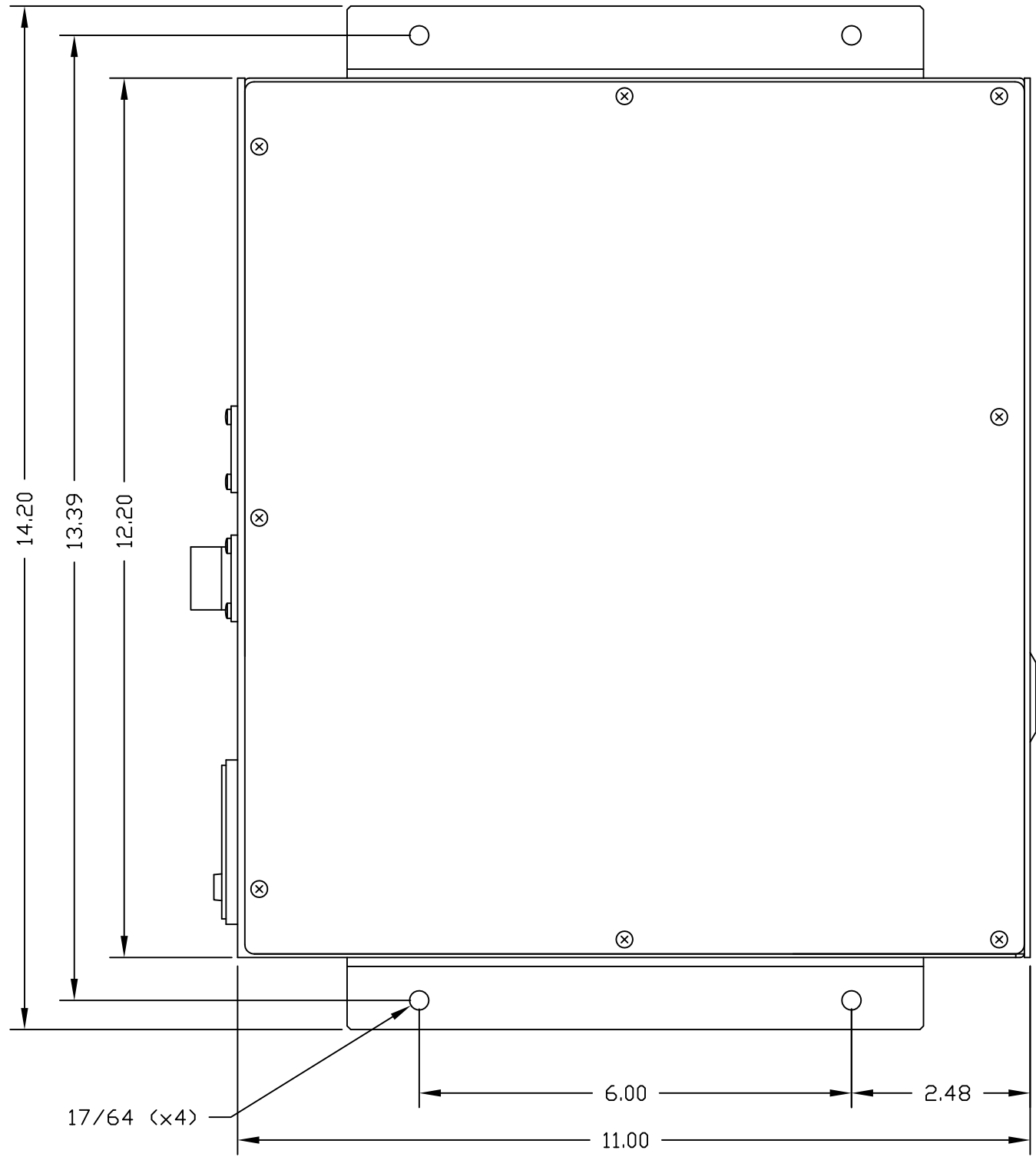
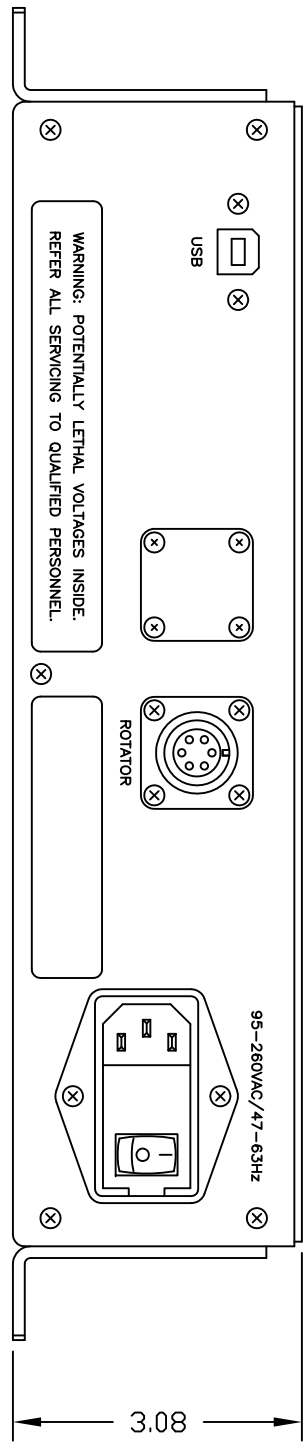


Specifications subject to change without notice

P/N 901-60277901 Iss 1.1

**KONGSBERG MESOTECH LTD. 1598 Kebet Way, Port Coquitlam B.C. Canada V3C 5M5**

**Tel: (604) 464 8144 Fax: (604) 941 5423**



**NOTES:**

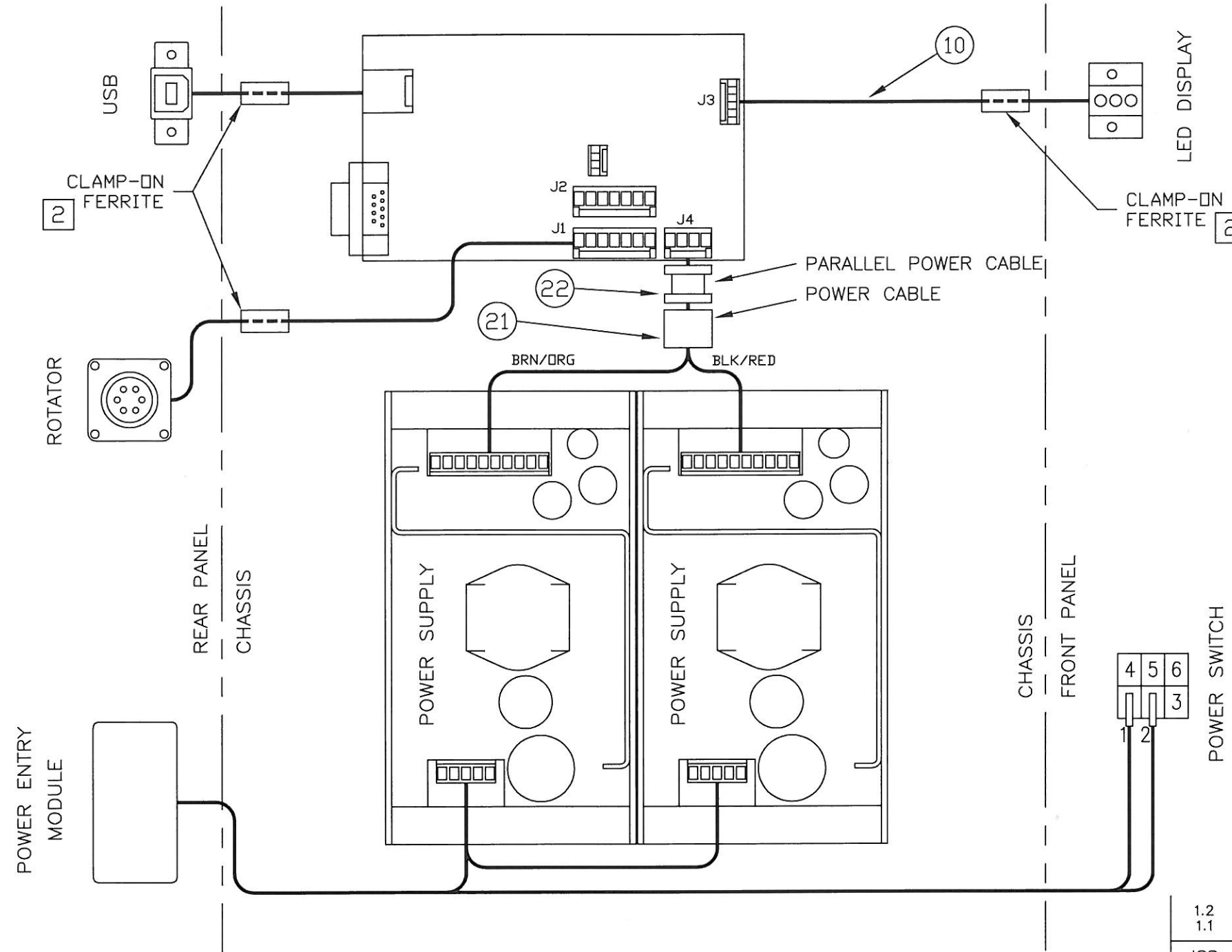
- 1 WEIGHT: 6.7lb/3.0kg
- 2 DIMENSIONS IN INCHES
- 3 DIMENSIONS ARE NOMINAL
- 4 DO NOT SCALE

PROPRIETARY NOTICE - THIS DOCUMENT CONTAINS INFORMATION WHICH IS SOLE PROPERTY OF KONGSBERG MESOTECH LTD AND IS RECEIVED IN CONFIDENCE. ITS CONTENTS MAY NOT BE DISCLOSED OR REPRODUCED IN ANY WAY WITHOUT WRITTEN CONSENT OF KONGSBERG MESOTECH LTD.

APPROVALS	DATE
DRAWN DL	11/11/24
REVISED	
CHECKED	
ENGR	
ISSUED	
CONFIDENTIAL DO NOT COPY	

ISS	DESCRIPTION	DATE
REVISIONS		
Kongsberg Mesotech Ltd.		
OUTLINE & INSTALLATION DRAWING - MS1000 ROTATOR USB INTERFACE		
SIZE	NCSM NO	TYPE
B	1C965	MD
DWG NO.	ISS	
901-60271001	1.0	
SCALE: 1:2	W.O. NO.	SHEET 1 OF 1

DO NOT SCALE DRAWING



**NOTES:**

- 1 ALL PARTS AND PROCESSES USED ON THIS ASSEMBLY MUST COMPLY WITH THE RoHS DIRECTIVE
- 2 INSTALL CLAMP-ON FERRITES AS CLOSE TO PANEL CONNECTORS AS POSSIBLE.

PROPRIETARY NOTICE - THIS DOCUMENT CONTAINS INFORMATION WHICH IS SOLE PROPERTY OF KONGSBERG MESOTECH LTD AND IS RECEIVED IN CONFIDENCE. ITS CONTENTS MAY NOT BE DISCLOSED OR REPRODUCED IN ANY WAY WITHOUT WRITTEN CONSENT OF KONGSBERG MESOTECH LTD.

DO NOT SCALE DRAWING

APPROVALS		DATE
DRAWN	BH	2011 JUN 22
REVISED	BH	2014 NOV 03
CHECKED	<i>Jm</i>	11/4/14
ENGR	<i>HL</i>	11/05/14
ISSUED	<i>P.A.</i>	2014 Nov 03

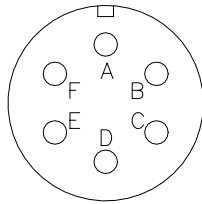
CONFIDENTIAL DO NOT COPY

ISS	DESCRIPTION	DATE
1.2	ECO 5397	14/11/03
1.1	ECO 5158	13/08/09

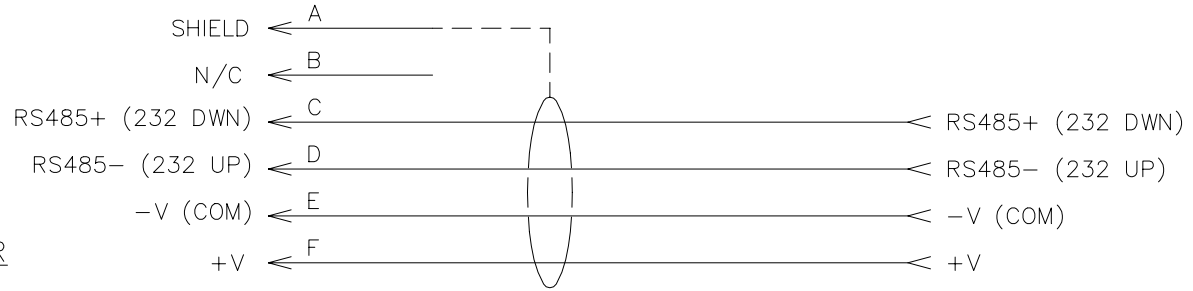
Kongsberg Mesotech Ltd.					
BOX WIRING DIAGRAM - MS1000 ROTATOR USB INTERFACE					
SIZE	NSCM NO	TYPE	DWG NO.	ISS	
B	1C965	MD	901-60271003	1.2	

SCALE: (3/5) W.O. NO. SHEET 1 OF 1

DIGITAL TELEMETRY



PROCESSOR CONNECTOR  
MS3106A-14S-6P (PIN VIEW)



NOTE:

IF THE HEAD IS NOT POWERED FROM THE PROCESSOR, CONNECT THE +/-V TERMINALS OF THE HEAD TO A SUITABLE EXTERNAL POWER SUPPLY AND DISCONNECT THE F TERMINAL ON THE PROCESSOR CONNECTOR (-V HAS TO CONNECT TO THE EXTERNAL SUPPLY AS WELL AS TERMINAL E OF THE PROCESSOR CONNECTOR).

ZONE	ISS	DESCRIPTION	DATE	APPROVED
REVISIONS				

<p><u>PROPRIETARY NOTICE</u> THIS DOCUMENT CONTAINS INFORMATION WHICH IS THE SOLE PROPERTY OF KONGSBERG MESOTECH Ltd. AND IS RECEIVED IN CONFIDENCE. ITS CONTENTS MAY NOT BE DISCLOSED OR REPRODUCED IN ANY WAY WITHOUT THE WRITTEN CONSENT OF KONGSBERG MESOTECH Ltd.</p>	<u>APPROVALS</u>		<u>DATE</u>		Kongsberg Mesotech Ltd.													
	DRAWN J.BANSER		11MAY00															
	CHECKED				PROCESSOR - HEAD INTERCONNECTION RS485/232 DIGITAL TELEMETRY													
	ENGR																	
	ISSUED				<table border="1"> <tr> <td>SIZE</td> <td>NCSM NO</td> <td>TYPE</td> <td>DWG NO.</td> <td>ISS</td> </tr> <tr> <td>A</td> <td>1C965</td> <td>MD</td> <td>436-00001201</td> <td>1.0</td> </tr> </table>				SIZE	NCSM NO	TYPE	DWG NO.	ISS	A	1C965	MD	436-00001201	1.0
	SIZE	NCSM NO	TYPE	DWG NO.					ISS									
A	1C965	MD	436-00001201	1.0														
NEXT ASSY		MODEL		<table border="1"> <tr> <td>SCALE: -</td> <td>W.O. NO.</td> <td>SHEET 1 OF 1</td> </tr> </table>				SCALE: -	W.O. NO.	SHEET 1 OF 1								
SCALE: -	W.O. NO.	SHEET 1 OF 1																
ZONE																		

