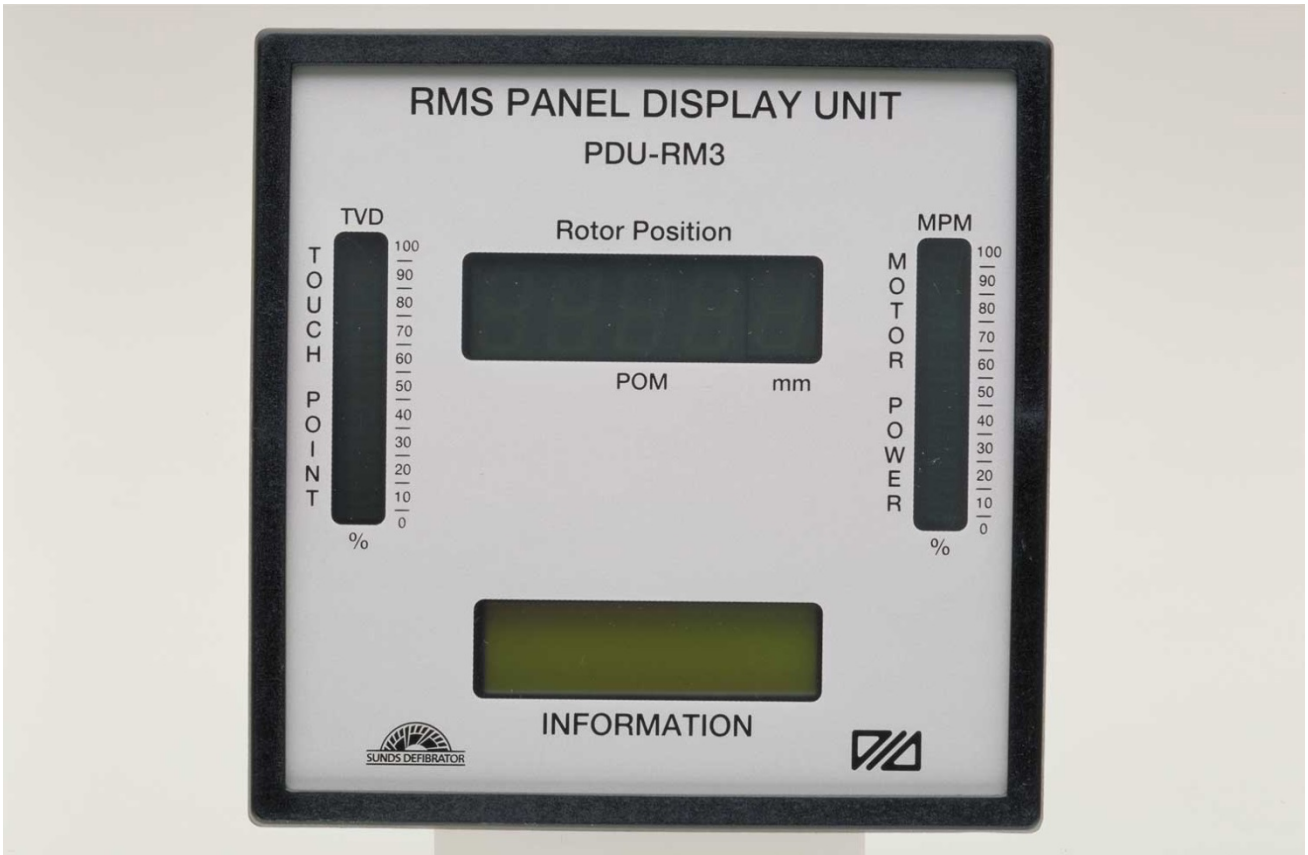




# PDU-RM3

VAL0122989 / SKC9194852



## PANEL DISPLAY UNIT FOR THE RMS-EX1 SYSTEM USERS MANUAL



## CONTENTS

1	DESCRIPTION OF OPERATION .....	2
2	TECHNICAL SPECIFICATION.....	2
3	CONTACT .....	2
4	INFORMATION DISPLAY .....	3
5	TEST MODE.....	3
6	MOUNTING INSTRUCTION.....	3
7	OUTLINE DRAWING .....	4

## 1 DESCRIPTION OF OPERATION

The PDU-RM3 is a panel display unit for RMS system. The unit works as a slave display to the LDU-unit in the RMS-EX rack.

The rotor-position reading is monitored on 4-digit 7-segment led's. The motor-power and touch point reading are continuously monitored on 20-segment bar graph led displays.

Further information can be shown on a information display. The display uses 2 rows of 16 characters. Each character is a 5\*7 dot matrix. It is built in LCD technology with background light.

The motor load is displayed in MW. Any alarm occurred at the LDU unit is displayed on the second row of the display.

If the RMC-function is enabled, those values and parameters will be displayed on the second row.

## 2 TECHNICAL SPECIFICATION

Article no	PDU-RM3 / VAL0122989 / SKC9194852
Power supply	+24 Vdc, $\pm 10\%$ 0.25 A, max
Internal supply	+5 Vdc, isolated from the power supply
Master unit	LDU-RM1, version 2.0 or later.
Panel signal indicators	
7-segment display	Digit height = 17 mm, width = 8 mm, colour = red.
20-segment bar graph	Dot height = 1.5 mm, width = 5 mm, colour = green.
Information display	2 rows, 16 characters, with green background light. Digit height = 5.5 mm, width = 3 mm, colour = black.
Digital signals	RS485-interface from the LDU-unit.
Input	ID+PDU1
Output	ID+PDU2
Common	ID-PDU
Connection	7-pole male connector in the unit. The cable K-PDU3 is used to connect to sockets in the RMS-EX1 rack.
Revision	HW 3.11, SW 1.70, Nov. 2014.

## 3 CONTACT

Sales, development, production and service:

### Dametric AB

Jägerhorns Väg 19, 141 75 Kungens Kurva, Sweden

Phone: +46-8 556 477 00

e-mail: [service@dametric.se](mailto:service@dametric.se)

Telefax: +46-8 556 477 29

Web site: [www.dametric.se](http://www.dametric.se)

dametric 

Valmet 

## 4 INFORMATION DISPLAY

### 4.1 NORMAL READOUT

<b>MPM</b>	<b>4.50MW</b>
------------	---------------

MPM Motor Power Load

When a motor power of 1.0 MW and lower is used (set at LDU unit), the PDU displays the motor power with a resolution of 0.01 MW. If a motor power higher than 1.0 MW is used, the motor power is displayed with a resolution of 0.10 MW.

### 4.2 FEED GUARD

<b>FG (xxxxxxxxxx)</b>
------------------------

Indicates the status of the Feed Guard Retraction supervisor.

The LDU-unit will display further information.

(contact) Feedguard contact  
(alarm) Feedguard alarm  
(retraction) Feedguard reset activated

### 4.3 RMC

<b>PSP=17.60 PW=0.0</b>
-------------------------

With software revision 2.0 and later and with a LDU-RM1 with revision 3.0 and later, the RMC function will indicate its values and parameters. See the LDU-RM1 manual for a detailed description.

PSP = Production Start Point.

PW = Plate Wear.

## 5 TEST MODE

Program version 1.2 and older:

If the serial input (White) and output (Brown) lines are disconnected from the screw connector and instead closed together, the unit will automatically enter the test mode.

Program version 1.3 and later:

If the serial input line (White) is disconnected from the screw connector and put to the serial common line (Green), the unit will automatically enter the test mode.

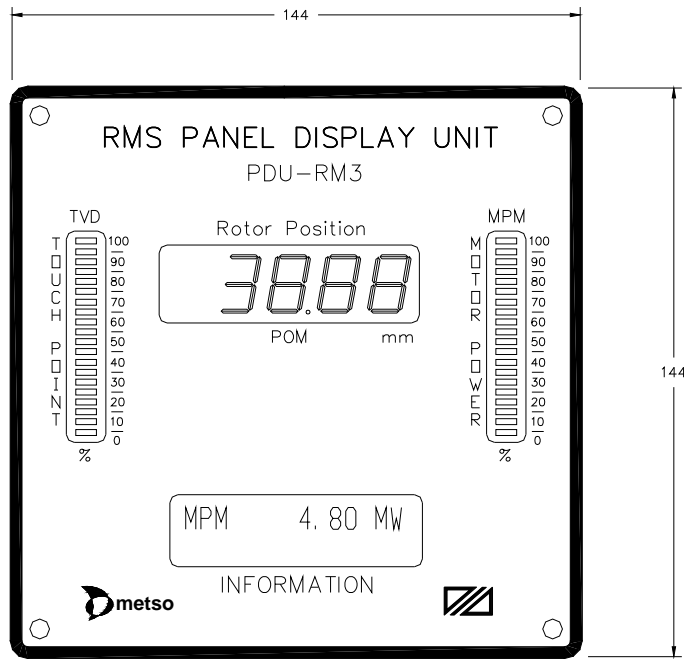
All led-segments will then be activated in order.

## 6 MOUNTING INSTRUCTION

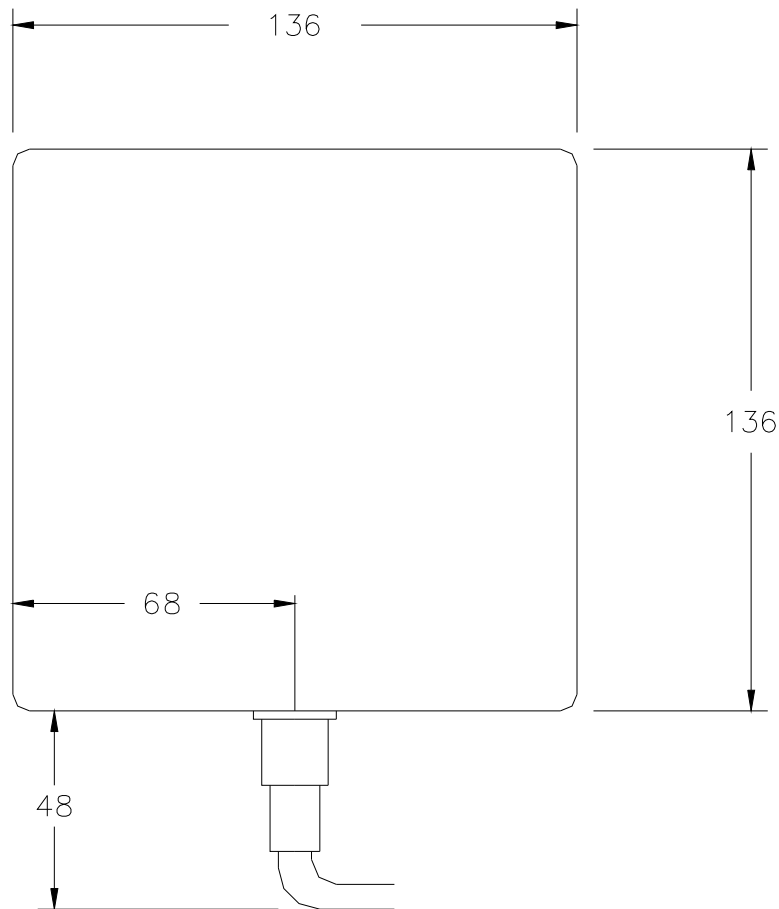
- Remove the mounting clips from the sides of the unit.
- Place the unit in the panel hole.
- Attach the mounting clips from the sides of the unit. Turn the screws until the unit is fully tight.

### 7 OUTLINE DRAWING

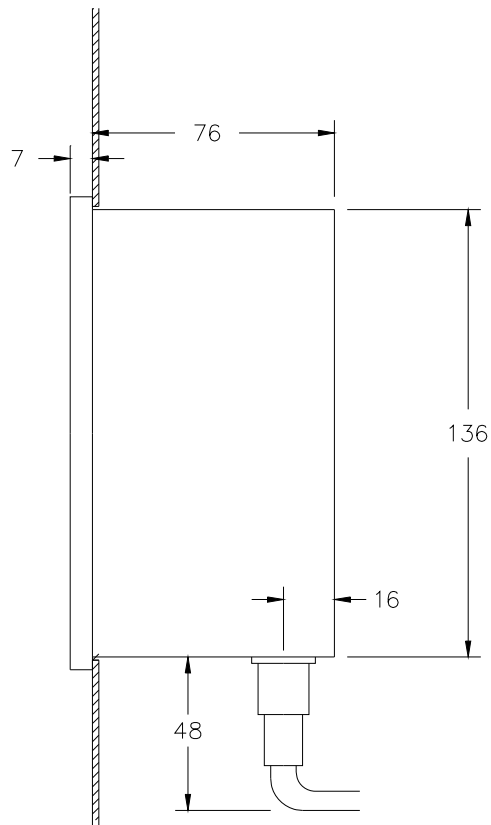
#### 7.1 FRONT VIEW



#### 7.2 REAR VIEW



7.3 SIDE VIEW



7.4 PANEL HOLE

