

RPU101-0000-00

ANTENNA ROTARY POSITIONING UNIT



APPLICATIONS

RPU is a pan-tilt system, which stands out with its 80kg load capacity, 0.1 degree positioning accuracy and compact structure. This rotary positioning unit offers 2 degrees of freedom. It can scan ± 180 degrees in pan movement and ± 90 degrees in tilt movement. Version with 3 degrees of freedom and different options is still under development.

RPU is used as an antenna routing unit on land and sea platforms and can be controlled by auxiliary control units: HCU (hand control unit) and RCU (surface mountable control unit).

STANDARDS

Qualified against custom defined environmental conditions



Naval Platforms: Pan tilt systems
Ground Platforms: Pan tilt systems

KEY FEATURES

- > Lightweight integrated design
- > High accuracy position control
- > Robust structure

Product Specifications

Input Voltage	18-32 VDC
Nominal Voltage	24 V (18V-32V)
Yaw Torque and Speed	700 Nm, 6°/sn (0°/360°)
Pitch Torque and Speed	700 Nm, 2°/sn (-90°/+90°)
Power Consumption	MAX 400 W
Inrush Current	MAX 75 A
Weight	42 kg
Paint	FED-STD-595B, 34094 or RAL7001
Mechanical Backlash	<0.05°



Connector Name	Interface
Parça No	D38999/24MC35PN
Shell Type	Shell Material
Jam Nut Receptacle	Composite
Shell Size	Insert Arrangement
13 (C)	35
Contact Size	Wire Size
22D	28, 26, 24, 22
Position	Signal
1	TX+
2	TX-
3	RX-
4	RX+
5	Supply -
6	Supply -
7	Supply -
8	HCU Supply +
9	Supply +
10	Supply +
11	Supply +
12	Supply +
13	Supply +
14	Chassis
15	B
16	A
17	Supply -
18	Supply -
19	HCU Supply -
20	Y
21	Z
22	Switch

Environmental Specifications

Operating Temperature		-30°C to +50°C
Storage Temperature		-40°C to +60°C
Humidity		%90 relative humidity
Vibration		Method 514.5, Procedure I, Category 20, Table 514.5C-VII, Figure 514.5C-3
Shock		20 g, 11 ms
Altitude	MIL-STD-810F	MAX 3000 m
Rain		Md. 506.4 Procedure II
Sand and Dust		Sand : Method 510.4 Procedure II, Air velocity : 25 m/s Dust : Method 510.4 Procedure I, Air velocity : 1.5 m/s
Icing		13 mm
Salt Fog		Method 509.4
Wind	-	120 km/h

