

WESEE-SMIG

**Technical Specification &
protocols
For
Navigation data
Interface Unit**

WESEE-SMIG

Equipment Details

Item	:	NDIU
Make	:	WESEE
Model	:	NDD00X
Inspection Agency	:	WESEE



WESEE-SMIG

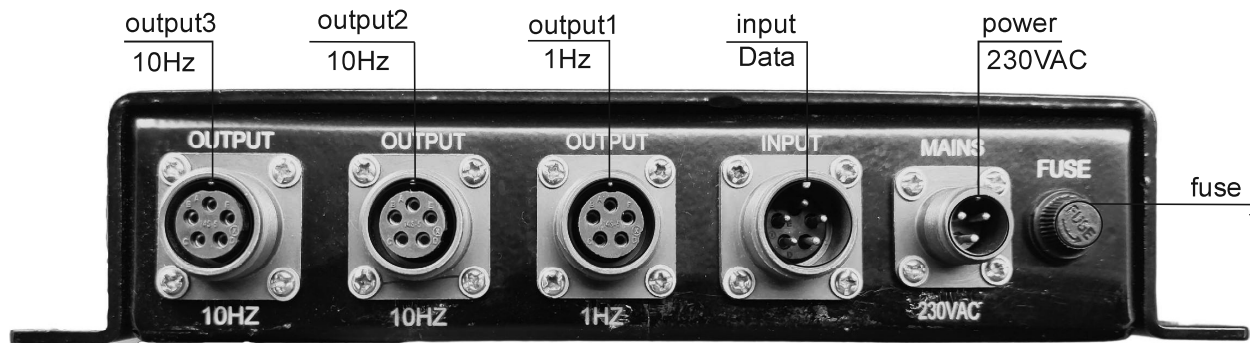


Figure 1 :- Rear view of the NDIU Unit

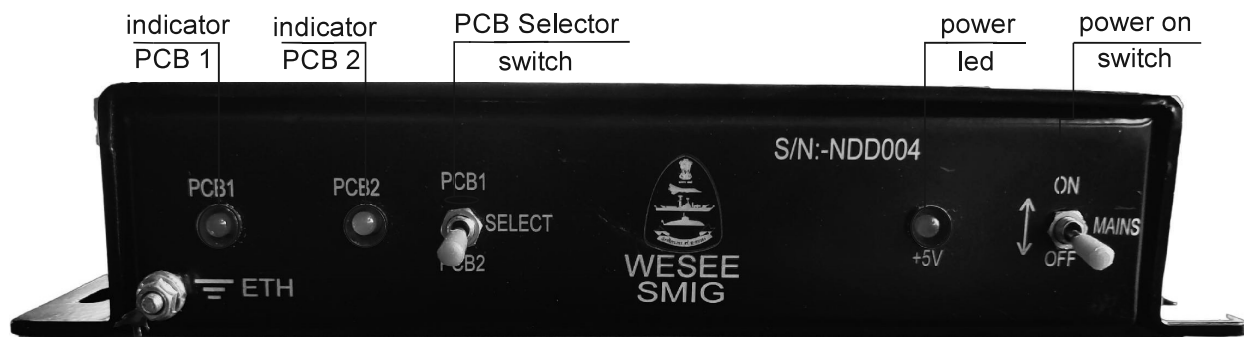


Figure 2 :- Front view of the NDIU Unit

System Description

- The NDIU involved the development of an aluminum box capable of receiving and converting 8-string data into both 1Hz and 10Hz frequencies.
- The primary objective of this NDIU was to design and construct a device to efficiently process and transmit data at two different frequencies.

Technical specification

1. One independent user – input ports as follows:
Input data 8 string only.
2. three independent user – output ports as follows:
output1 port 1Hz output (2,3) 10Hz.
3. +/- 10kv electronic discharge protection
4. Short circuit protection on data lines
5. Compact size, light weight, and portable not exceeding 273mm x 200mm x 55mm
6. We Have Also Provided an Additional PCB in This Unit Which you Can Use in Case of PCB 1 not working. To Use PCB 2, Use Select Switch Provided on The Front Panel (Figure 2.)

WESEE-SMIG

Connector Details: -

Connector Made Up of Aluminum/Nicked/Bronze Alloy to Provide Protection Against Corrosion and Additional Ruggedness (Amphenol/Allied/ Equivalent Make) The Input Connectors Will be 3,5 Pin Male Chassis Mount and Output Connectors Will Be Five Pin Female Chassis Mounts.

Power supply: -

The Interface Unit Should Be Able to 230 Volts,50Hz Single Phase Power Supply The Power Supply Should Having Over-Current, Over Voltage Protection.

Main Power Connection is Follow as:

Connector	Pin-A	Pin-B	Pin-C
Mains	Phase	Neutral	Earth

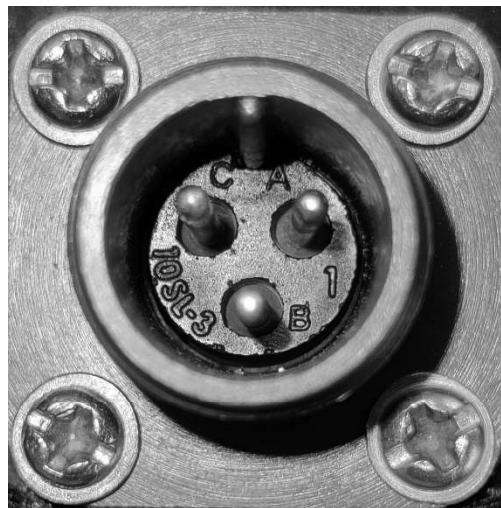


Figure 3 :- Mains Connector

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Technical details :-

This Unit Works to Convert Received Data Into (1Hz or 10Hz).

Operation procedure :-

Input Data Should be Connected to The Input Connectors Provided on The Rear Panel The Unit Should Freely Accept The Data (Input)

The Connection of Input Data is Follow as:

Connector	Pin-A	Pin-B	Pin-C
Input	A1/D+	B1/D-	GND

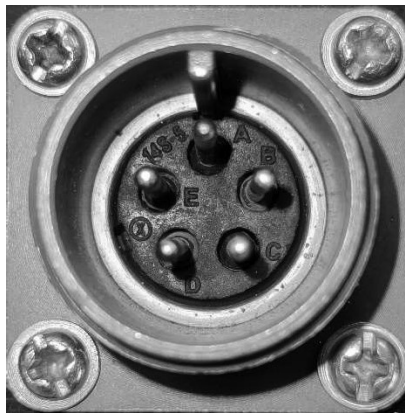


Figure 4 :- Data Input Connector

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The Output Data Should be Connected to The Output Connector Provided on The Rear Panel The Unit Should Freely Send The Data. (Output1 for 1Hz and Outputs2,3 for 10Hz).

The Connection of Output Data is Follow as:

Connector	Pin-A	Pin-B	Pin-C
Output 1	Y1/D+	Z1/D-	GND
Output 2	Y2/D+	Z2/D-	GND
Output 3	Y2/D+	Z2/D-	GND

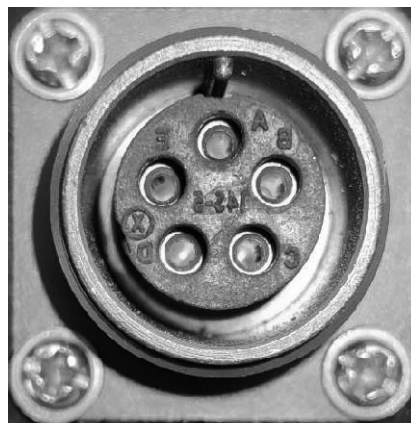


Figure 5 :- Data Output Connector

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Operation Instruction:-

1. Connect the Power Cable and input Output Cable in Wair Mount Connector.
2. Ensure Fuse is not Blown if Found Blown or Broken Replace.
3. Ensure Earth Connection Provided with Ship Earth Connection.
4. Power ON Unit by Moving Switch lever up Side.
5. Power ON led will get on and Unit if will start giving out on desire connector.



Figure 6 :- Wair mount Power Connector



Figure 7 :- Wair mount Input Connector



Figure 8 :- Wair mount output Connector