## BEARINGLESS FLANGE/SHAFT TYPE TORQUE TRANSDUCER

The torque sensor is the ideal choice to measure extremely high torque. It improves productivity and efficiency when measuring high torque – while ensure absolute ease of operations.

The bearing less non-contact version is the ideal solution for power test benches for ship's main engines or tests in the offshore, automotive or heavy engineering industry.

The integrated electronics in the rotating sensor ensures easy of use and offers fast measurement results. The electronics ensures ease of calibration tasks.

- **Cost-effective and maintenance-free:** Design is without bearings or slip rings
- **Easy to use:** the rotating version features integrated electronics, easy control and fast measurement results
- **Reliable:** Fast and responsive output on Remote Electronics in Digital /Analog formats as per customer choice
- **RTC:** The torque output is available with Real Time Output to ensure co-relation with other associated process parameters
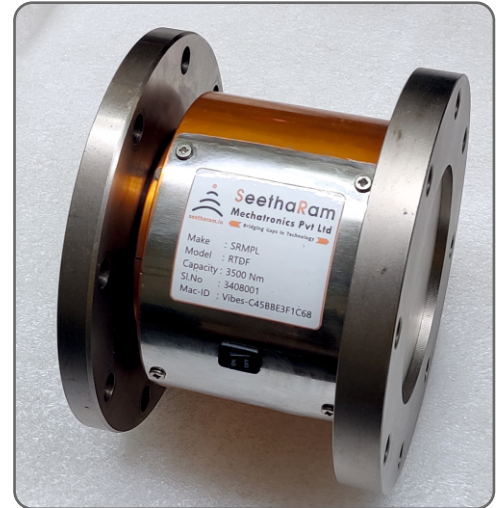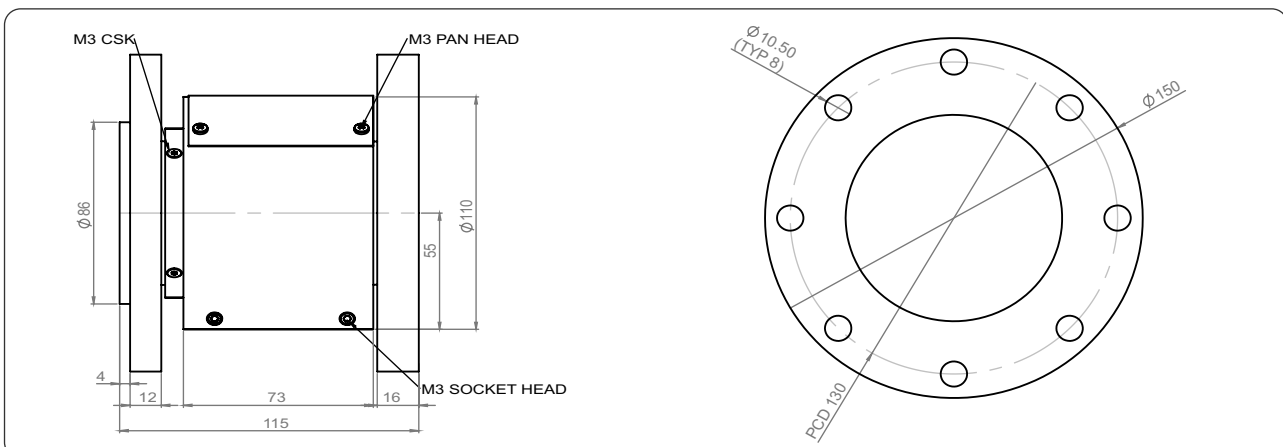
## KEY FEATURES

- Nominal (rated) rotational speed: upto 6,000 rpm
- Available in rotating and non-rotating versions
- Without bearings or slip rings
- Small foot-print design
- Optional speed measuring system with RPM output as pulse or proportional analog output depending on measuring range







## TECHNICAL SPECIFICATION

| Model | RTDF |
|---|---|
| Accuracy | 0.2% |
| Non-Linearity | 0.2% |
| Repeatability | 0.05% |
| Output | RS485 |
| IP Protection | Sensor : IP54 |
|  | Output Module: Ip55 |
| Power Supply | 3.6V Lithium Battery Rechargeable through |
|  | USB C on both Sensor & Output Module |

## DIMENSION DETAILS



M3 CSK    M3 PAN HEAD
Ø86    Ø110    55
4    12    73    16    M3 SOCKET HEAD
115

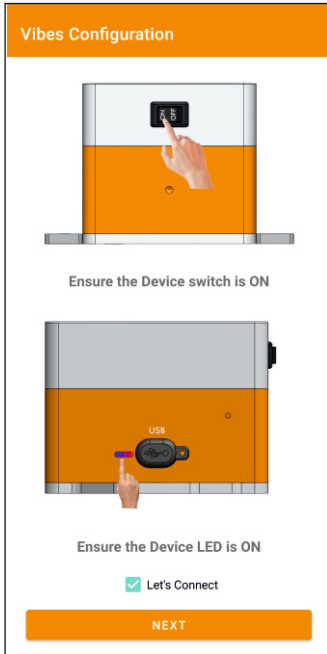Ø10.50 (TYP 8)    Ø150    Ø130    PCD 130

Specifications are subject to change without Prior notice
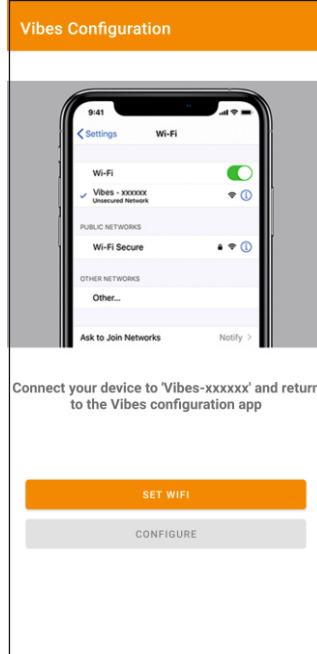
## Sensor Configuration

### Instructions

**Step:1** Open Vibes configurator app on your Android device. and ensure the devices turned ON.
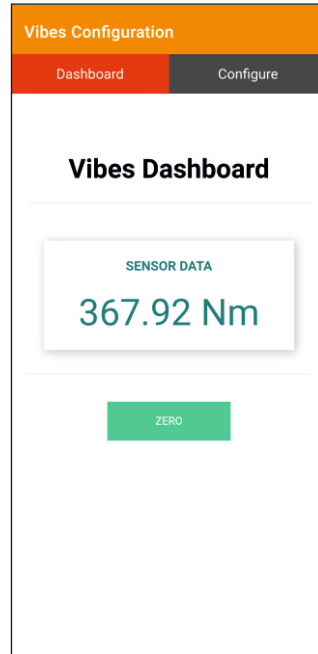
### Device Connections

**Step:2** Connect your mobile wi-fi with Vibes device and return to the Vibes configuration app and select configure.

### Dashboards

**Step:3** Here you can monitor device data on local dashboard and can Tare / Zero the sensor value, if there is any pre-load

### Sensor Configuration

**Step:4** Enter your sensor data. Ensure the details you have entered are visible in **"Current Stored Values"**.

**Vibes Configuration**

Ensure the Device switch is ON

Ensure the Device LED is ON

☑ Let's Connect

**NEXT**

**Vibes Configuration**

Connect your device to 'Vibes-xxxxxx' and return to the Vibes configuration app

**SET WIFI**

**CONFIGURE**

**Vibes Configuration**

Dashboard | Configure

**Vibes Dashboard**

SENSOR DATA

367.92 Nm

**ZERO**

**Vibes Configuration**

Dashboard | Configure

**Device Settings**

**Sensitivity**
Sensitivity

**Rated Capacity**
Rated Capacity

**Span Value**
Span Value

**Unit**
Unit

**Current Stored Values**

Parameter Value
Sensitivity : 2.538
Rated Capacity : 3500
Span Value : 1
Unit : Nm

**SAVE**

## Output Module Configuration

### Instructions

**Step:1** Open Vibes configurator app on your Android device. Turn OFF the sensor device and Turn ON the configurator device to pair with the sensor device.

### Device Connection

**Step:2** Connect your mobile wi-fi with Vibes device and return to the Vibes configuration app and select configure.

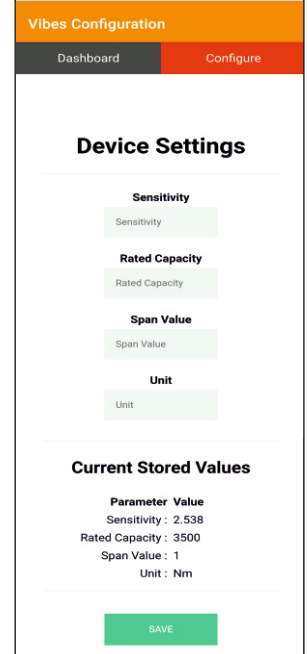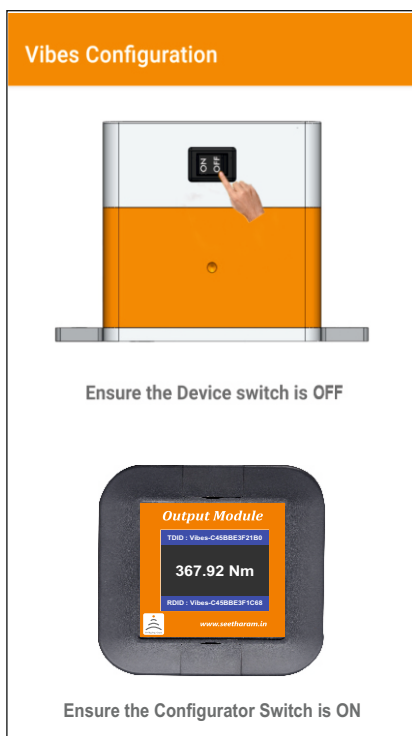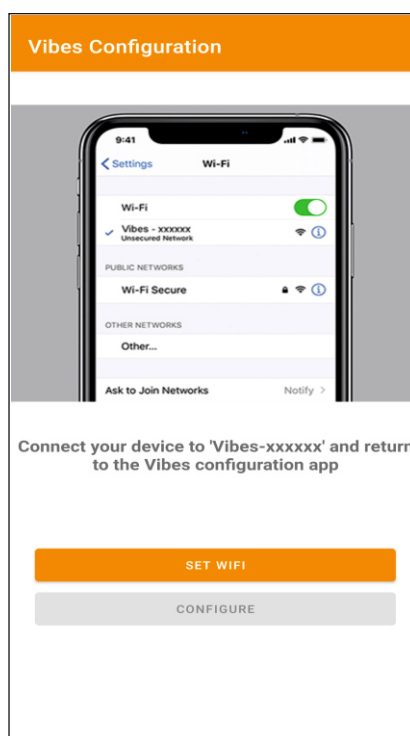### Configuration

**Step: 4** Enter your device SSID credentials in Wi-fi credentials to view sensor data wirelessly on configurator. Configure Modbus parameters for communication output. Ensure the details you have entered are visible in **"Current Stored Values"**.

**Vibes Configuration**

Ensure the Device switch is OFF

Output Module
TDID : Vibes-C45BBE3F21B0
367.92 Nm
RDID : Vibes-C45BBE3F1C68
www.seetharam.in

Ensure the Configurator Switch is ON

**Vibes Configuration**

Connect your device to 'Vibes-xxxxxx' and return to the Vibes configuration app

**SET WIFI**

**CONFIGURE**

**Vibes Configuration**

Dashboard | Configure

**Wi-Fi Credentials**

SSID
Enter SSID

Password
Enter Password

**Modbus RTU Parameters**

Device ID | Device ID

BaudRate | 9600

Current Device ID :1
Current BR :9600

**SAVE**

Specifications are subject to change without Prior notice

Bridging Gaps