Ogauge®

Quick Start Guide

Welcome to Ogauge

This Quick Start guide tells you how to set up your Ogauge and use its key features.

Registration

To start, turn on your Ogauge by supplying 24VDC. Please refer to the manual by scanning the adjacent QR code, for wiring up.

Every Ogauge has to be registered to help users keep uptodate with updated firmware, assistance in the event the passwords are forgotten or for any help needed for resolving your queries. Registration of Ogauge can be done through a mobile application (android or iOS) which has to be downloaded on a smartphone from the Apple store or Google playstore. Once the Ogauge is opened and started, a QR code will appear on the screen. Please scan the QR code on the screen with the mobile app and follow through the guided registration procedure.

Note : Please ensure the registration is done in the vicinity of a fairly fast, uninterrupted internet connection.

Dashboard

You should receive emails of successful registration of Ogauge. A dashboard application on the cloud will help you analyse data from Ogauge, and control some basic functions of Ogauge. A dashboard account will automatically be created for you, if it does not exist, with your email address as the login. You can set your own password. Please check your emails and follow the procedure.

If you already have a dashboard account, the Ogauge will be added to your account. Since you are the admin, you can add other users under your control, and make your Ogauges visible to them.

The Ogauge will be visible on your dashboard only when you pair it to a router and it successfully connects to the cloud.

The dashboard application can be customised to your requirement, to give meaningful insights into your process, and improve them to enhance your gains.

Accessing the Ogauge via keypad

Some basic configuration of the gauge is possible from the keypad provided on the gauge.

Pressing the <Enter> key for a few seconds will prompt the user to select a role and enter the associated pin. If it matches the one stored in the gauge, further configuration according to the role will be allowed.

Navigation of the menu is possible by using the up, down, left and right keys shown in the image alongside.

Keypad

Up key

Enter key

Left key

Right key

Down key

Accessing the Ogauge via mobile app

Full configuration of the Ogauge is possible using the mobile app you have downloaded from the Apple store or Google playstore. Move within 15 feet (approx 5 meters) of the Ogauge. Select your Ogauge from the list that appears for pairing. Clicking on your particular Ogauge will connect your app to the Ogauge for further configuration.

Meaning of symbols on the Oguage

The following symbols at their respective places show the presence or absence of relative connections .

1. shows Relay number for which data is displayed on screen (present only when Screen 3 is selected)
2. shows device has detected onboard storage device
3. Shows device is connected to the cloud server for telemetry data and allows remote configuration.
   • The white border shows settings can be done via dashboard server.
   • Blue cloud indicates telemetry data is being posted to the server.
4. shows mobile is paired to the Ogauge
5. shows WiFi is on
6. shows device is working
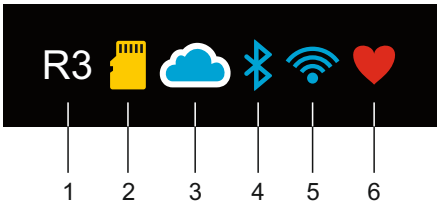
Relay outputs

Ogauge has four onboard hard hermetically sealed relays rated at 5A, 250 VAC / DC . Each of these can be used to drive loads within the current and voltage limits.

The cutin and cutoff points of each of these relays can be programmed independantly at site, with or without the pressure being applied to the Ogauge.

A time delay can be applied at each of the upper and lower limit, making it easy to adapt Ogauge to a lot of applications where momentary rise / fall in process parameter value creates false alarms.

A manual reset can be applied to each of the relays on the upper limit. The relay will not reset even if the display parameter falls below the lower limit, when the manual reset is set to on. A person has to physically go to the gauge and reset the relay.

All upper and lower limits of the relays need to be within the zero and FSR (full scale range) of the Ogauge. Response time of relays is typically less than 20 ms.

Analogue outputs

Ogauge has two analogue outputs, namely one current and one voltage output. Both the outputs can be independantly programmed with individual zero and span values. Most popular outputs like 4 – 20 mA, 0 – 10 VDC are provided but custom outputs are also possible. Even reverse outputs like 20 to 0 mA or 5 to 0 VDC can also be programmed.

Sectors

Ogauge can be configured to indicate if the process pressure is safe or dangerous, by use of colours on the display. The upper and lower limits of the independant sectors cannot overlap. Four sector colours can be set on Ogauge. Any of the sectors can be configured with no colour.

IOT via Cloud Connect

IOT or internet of things, opens up huge possibilities in automation, and improving processes, saving costs, predicting failures, automating service requests to name just a few. Ogauges are equipped with this feature. All Ogauges can be connected to a cloud based application through a wifi router.
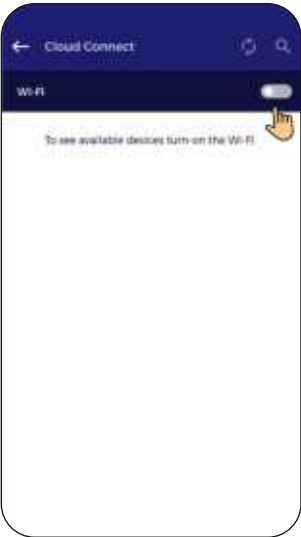
Level Mode

Ogauge can be used for *hydrostatic level applications* in vertical tanks or rectangular tanks, to display and control directly the height of clear liquids, the mass or volume of the liquids. Selection of a proper type and range of the gauge is essential. Density of the liquid, and dimensions of the tank need to be fed in using the mobile app.
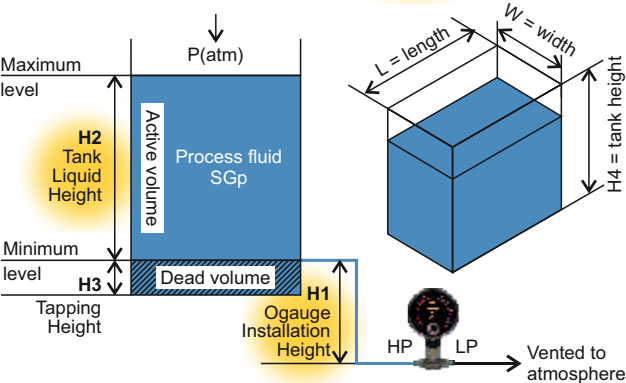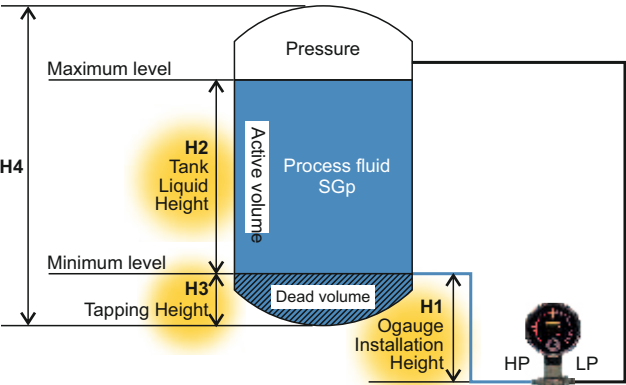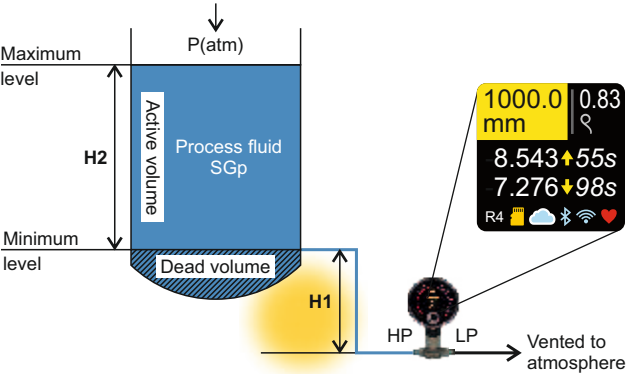
Force Mode

Ogauge can be used for *force measurement* in hydraulic presses, to display and control directly the force applied on the ram. All one needs to do is select the Force mode from the mobile app, and feed the ram diameter. Selection of a proper range of the gauge is essential.

Ram Diameter
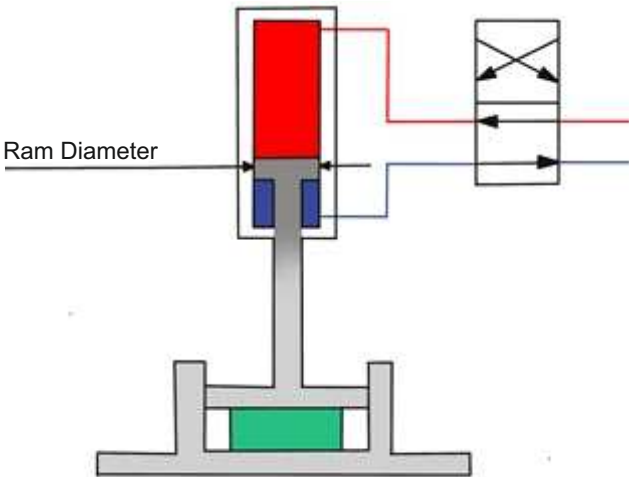
Learn more

Learn more about Ogauge features at **www.ogauge.io**

For the Ogauge User Guide and important information, visit **www.ogauge.io/resources**

Get support

For any support, please write to **support@ogauge.io**