

MURAG-20 II



well thought, well done.

rag_sol
is a RAG Austria
AG spin-off
to market RAG
technologies,
know-how and
solutions for the oil
and gas industry.

Our experience and know-how are based on RAG Austria AG's more than 80 years in the field. Combining traditional industrial standards with new technologies, innovative products and state-of-the-art know-how that adapt to the environment while increasing its potential, ragsol provides comprehensive solutions to modernize oil and gas fields. Our aim: to create what we call smart brownfields.

Providing opportunities hitherto unprecedented on the market, our main focus is to produce oil and gas more efficiently and to manage these valuable natural resources in a responsible eco-friendly approach.

Description

MURAG-20 II is a device for performing reservoir measurements at various wells and artificial lift systems. The aim is to do these measurements with minimum work force effort to reduce HSE risks on site, with high flexibility and therefore high mobility.

MURAG-20 II is able to measure and provide data output on:

- Bottomhole pressure
- Liquid level in wells annulus
- Casing head pressure
- Acoustic profile of a well

The system is able to be mounted permanently and can also be used mobility. Operation of the device requires only one man, to keep operating costs as low as possible. Preparation, installation and start up for each well should take less than 1 hour.

A main application of MURAG is to perform pressure build up surveys to gain valuable reservoir information more easily. In order to reduce downtimes during pressure build up surveys the measured data is provided live and online. The device provides the option to utilize the measured liquid level information to control a pump's speed and status.

MURAG is independent of any existing data transmission infrastructure. Measured data can be transmitted using GSM, satellite, 4–20 mA, Modbus TCP and IoT solutions.

It is possible to integrate the device into the existing local SCADA system. In case of loss of data transmission the device provides the possibility to locally store all measured data. Data extraction is done automatically, via remote access and on site. Additionally, MURAG is part of 'Zister' intelligence – a stand-alone software solution for data visualization, data analysis and data storage. The data is accessible online, via a web browser as well as mobile devices. The device can be operated and monitored remotely for safety reasons.

For configuration purposes, manual remote access is available. Where there is no power supply at a well site, MURAG is able to be sustained using independent power supply (e.g.: battery, fuel cell, solar panel).

The major content of the device is made in Europe.

Technical Data

Measuring range	30–6,000 m
Measuring accuracy	+/- 3 m
Measuring resolution	0.3 m
Measurement drift	zero
Measurement rate	up to 1 minute
Ambient temperature	-20 to +50 °C
Pressure rating	5,000 psig
ATEX	certified
Output connection	4–20 mA Modbus TCP ethernet
Power supply	110–230 VAC
Frequency	47–66 Hz
Data transmission	LPWAN suitable (MIOTY in 2020) LTE/3G/2G Satellite Ethernet (Modbus, HTTPS)