# GRX-Q

PREMIUM SENSOR TECHNOLOGY
made by grindaix


grindaix

# THE VOLUME FLOW SENSOR

for fluids (oils, emulsions, water), gases and vapours

## „ I AM A PERFECTIONIST !“

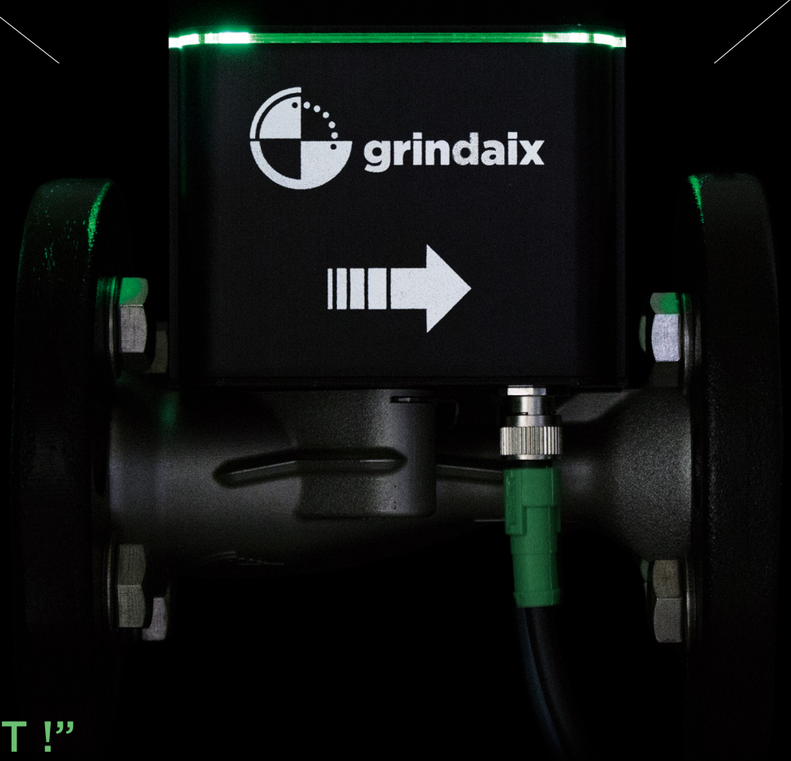
- High measurement accuracy (error <5%)
- Automatic compensation of viscosity changes
- No moving parts
- Good reproducibility of the measurement values
- **High signal resolution**

## “ I ADAPT QUICKLY !”

FLUID CHANGE:

- Change the parameters of all connected sensors at the same time with just one “click”
- No replacement of mechanical components necessary

**No system downtime – no work effort!**




## “ ANYBODY CAN DO ONE; I CAN DO THREE !”

- Volume flow [l/min]
- Pressure [bar]
- Temperature [°C]

## “ MY STATUS? I DISPLAY IT !”

- LEDs for visual output of the operating status at the sensor
- 3 states: Trouble-free (green), Warning (orange), Error (red)

## “ I HAVE EVERYTHING IN SIGHT !”

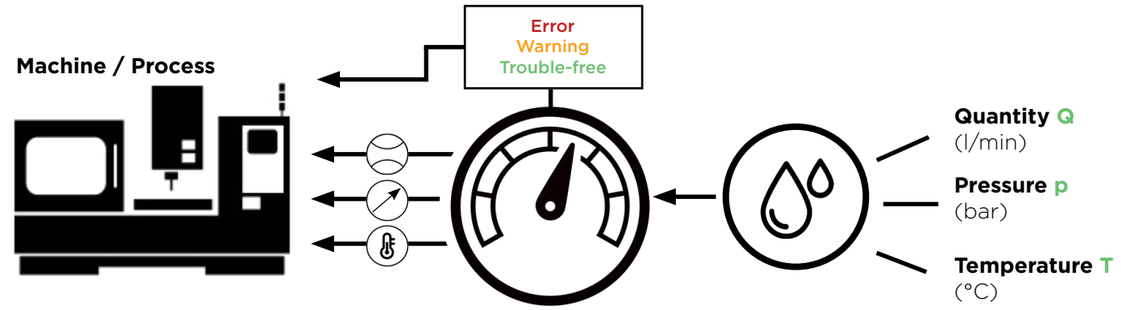
- Simultaneous monitoring of three measurement values
- Suitable for all commercially available monitoring systems
- Easy connection to the GRX MONITORING SYSTEM
- No analog/digital conversion necessary

## “ DIRT? I CAN HANDLE THAT !”

- Suitable for highly contaminated fluids
- Highly wear-resistant, additively manufactured pipe geometry
- No sensor elements in full fluid flow
- Free pipeline geometry
- Low pressure loss

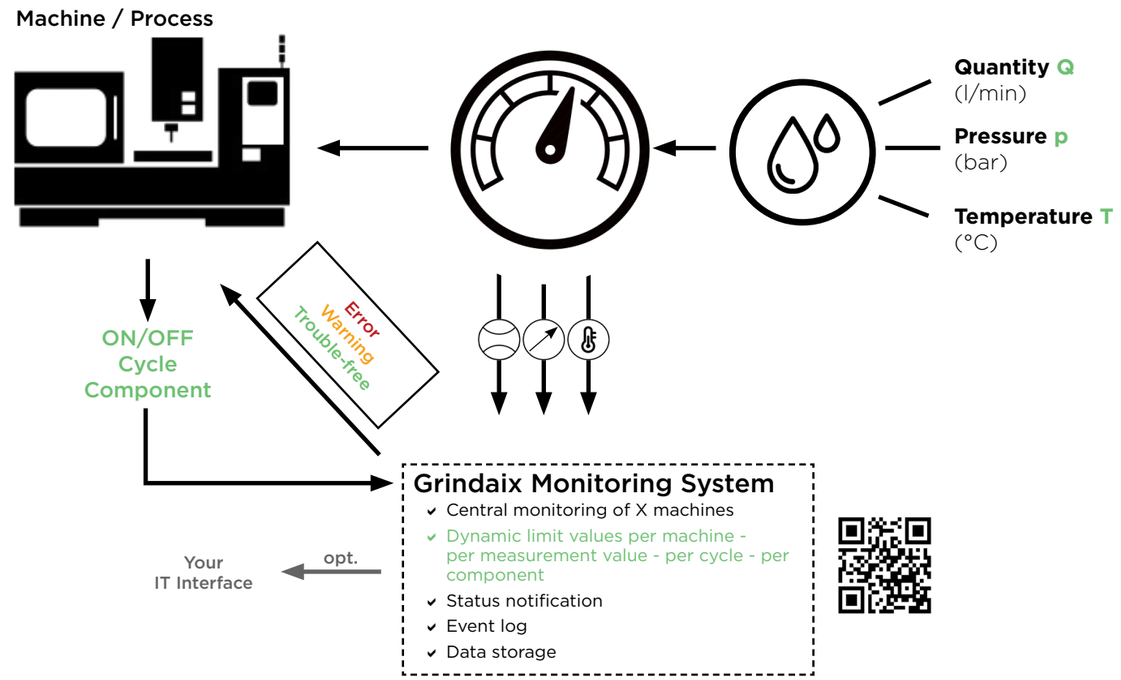
# POSSIBLE USES

## FUNCTION 1: FIXED LIMIT VALUES




## FUNCTION 2: DYNAMIC LIMIT VALUES

(cycle-related/component-related)



# PRICE

## €0.05 complete price* per operating hour

* Price example: Operating costs incl. acquisition costs, with a useful life of 10 years; 220 days/year in three-shift operation

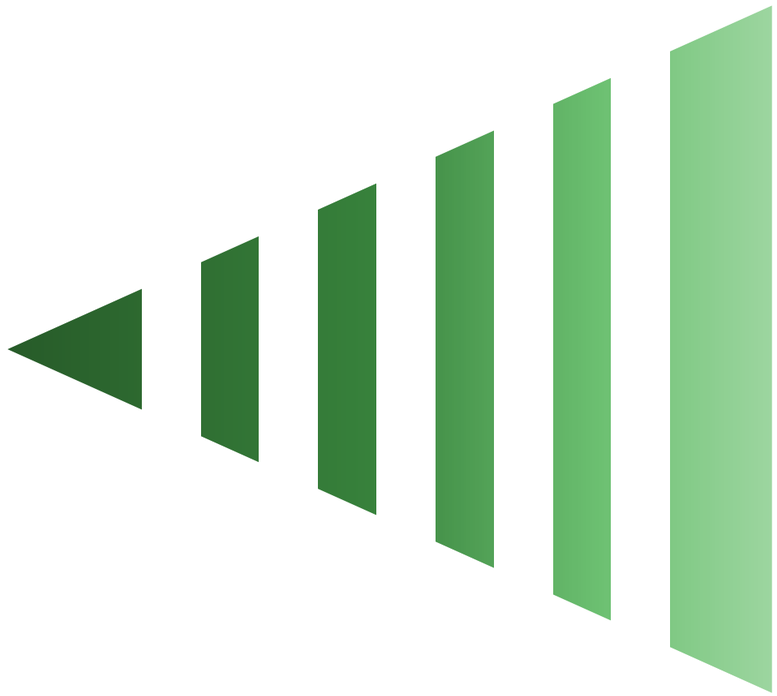
# APPLICATIONS

The sensor function is based on the differential pressure method, which determines the volume flow via differential pressure with the aid of a defined cross-sectional change. By means of an additively manufactured element, it is possible to create an optimum inner contour for the measuring pipe. This enables low pressure losses with low-wear use. The GRX-Q can be configured for a wide variety of media using parameterization software.

**This method allows the monitoring of liquids, gases, vapours and corrosive media, even when there is a high degree of contamination or when high temperatures and high pressures prevail.**

In addition to the volume flow, the pressure in the pipe system and the prevailing media temperature are also measured at the same time.

The GRX-Q volume flow sensor optically indicates its operating status (e.g. error, warning, trouble-free, etc.) by means of different colours.




# Grindaix GmbH

Marie-Curie-Straße 8

50170 Kerpen

Tel: +49 2273 95373-0

Fax: +49 2273 95373-5

E-Mail: info@grindaix.de


grindaix