Digital Indication and Control Instrument

VarioFox

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The Digital Indication and Control Instrument

Advantages – Your benefits

- Compact and ready-to-connect
- 5-digit graphic LCD display
- Text-orientated menu user guide
- Freely selectable measurement units
- Integrated transducer supply
- Integrated visual and audible alarms
- Robust wall mounting housing, IP 54 (EN 60529)
- 2 or 4 relay switching outputs
- Data logger function
- USB port for data transmission
- PC evaluation software VarioView for the saving of measurement data

Description

VarioFox is a compact, ready-to-connect indication and control instrument with a digital display housed in a robust wall mounting enclosure.

With integrated transducer supply and two or four relay outputs. VarioFox processes all standard output signals.

The text-orientated menu guide makes it user friendly, easy to operate and to program.

Freely selectable measurement units, adjustable start and end of scale values allow for almost all parametering.

A mute button on the front of the unit obliges the plant operator to carry out regular checks; this ensures additional operational safety.

VarioFox – the Multi-Talent

1. Modern housing design, matching other AFRISO control instruments
2. Robust, wall mounting housing (IP 54), manufactured from high impact plastic (ABS)
3. 5-digit graphic LCD display with white background lighting
4. Front keypad with visual and audible alarm and mute button
5. Probe connection
6. 2 or 4 relay outputs for connection of additional alarm instruments
7. Supply voltage connection

VarioFox – Universal. Stand-alone. Compact.

Technical Specifications VarioFox 12

Display
5-digit graphic LCD display with white background lighting, text-orientated user guide. Operating and display languages: choice of German/English/ French, freely selectable units of measurement.

Measuring range
99,999...– 9.999
(Start and end values as well as comma position are fully adjustable)

Linearity
±0,1 % of measuring range

Resolution
10 Bit, decimal point fully adjustable

Response time
< 0,2 secs., filter facility

Operating temperature range
Ambient: -10 °C/+55 °C

Supply voltage
AC 50–253 V
DC 0–253 V

Sensor supply
Integrated, galvanically isolated supply voltage for transducer:
DC 20 V/20 mA

Sensor inputs
All standard analogue signals, e.g. 4–20 mA, 0–20 mA, 0–10 V.
Transistor (PNP, e.g. for VibraFox GVG)

Application example:
Continuous electronic level measurement of liquids using VarioFox and DMU 08.

Visual alarm
1 red LED

Audible alarm
Integrated piezzo buzzer, can be muted

Analogue output 1
0/4–20 mA, galvanically isolated

Analogue output 2
0–10 V, galvanically isolated

Switching outputs
Relaiskontakte: 2 voltage-free changeover (adjustable hysteresis)
Contact load: AC 250 V
2A 100 VA

Interface
USB-COM-port

Housing
Robust wall mounting housing from high impact plastic (ABS)
W x H x D: 100 x 188 x 65 mm
Protection: IP 54 (EN 60529)

Linearisation
Customer specific linearisation with maximum 24 points, e.g. for volume indication (litres) in non-linear vessels, dip charts for horizontally installed cylindrical tanks as well as spherical tanks are programmed in.

Min./Max. value memory
The highest and lowest values reached during operation can be called up.

Data storage and clock
Data memory for long-term monitoring on memory card (SD/MMC), memory card is not part of scope of delivery.

Optional
- 4 relay output contacts (VarioFox 14)
- PC evaluation software VarioView for saving daily measurement data files

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Sensors for free-flowing solids, liquids and gases

VarioFox, in conjunction with the appropriate electronic transducers (e.g. pressure, temperature, level, humidity, ...), level switches or gas analysers, provides the user with a stand-alone, completely independent measurement and control system for the indication, control and evaluation of process data.

Applications range from measurements in containers, tanks, wells, bore holes, rivers and water treatment plants to the monitoring of incineration and manufacturing processes.

HydroFox DMU 08

LEVEL

PulsFox PMG 01

LEVEL

Oxystem 300

GAS ANALYSIS

VibraFox GVG 12

LEVEL SWITCHING

DMU 03 / DA 06

PRESSURE

WTh 30

TEMPERATURE

Measurement in a grain silo using PMG, VarioFox and EMS.

Remote indication and control: VarioFox in combination with EMS and the web service www.afriso-net.com.

Complete system solutions for measurement, control, monitoring and recording

Our times demand the application of high-tech communication technologies in logistics, manufacturing and maintenance processes.

Complex processes have to be run at an optimum performance level and, at the same time, they are under enormous cost pressures. It is not always essential to have highly elaborate control systems in order to optimize a process.

With the VarioFox Indication and Control Instrument, AFRISO offers a cost effective and flexible solution for process measurements. In conjunction with the Event Reporting System EMS and the AFRISO Net Web Service it represents an easy-to-operate, economical measurement and control system with data recording and remote control facilities.

Events such as reserve level or fault messages, level measurement data and process interference information can be sent immediately by SMS around the clock world-wide.

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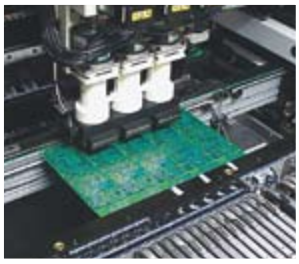
AFRISO-EURO-INDEX – The Company

AFRISO, founded in 1869 by Adalbert Fritz in Schmiedefeld/Thuringia, Germany, is an innovative, medium sized privately owned family company with some 900 employees world-wide – 475 of which work in our four German factory locations.

Traditionally, we produce measurement and control instruments for temperature and pressure. For more than 50 years now, we also produce measurement, control and monitoring instruments for environmental protection:

- **Level measurement instruments**
- **Overfill prevention devices**
- **Leak detectors**
- **Flue gas analysis instruments**



The ever growing knowledge of our highly motivated and qualified staff, combined with the close customer contact of our sales advisors leads us permanently to new product designs which reflect the latest market requirements.

Our product range spans from low cost, well proven standard design products to highly specialised custom made single product solutions.

- Research and Development
- Tool making and assembly fixture design
- Multi-shift and highly rationalised production
- Highest quality levels
- National and international approvals

... make AFRISO designs to customer and market approved brand products.

Environmental management according to ISO 14001 is an obvious and standard norm for us.

The complete product range:
Measuring, control and monitoring devices for building technology, industry and environmental protection.

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