

# KRIWAN Voltage Monitor

INT69® UY Diagnose



# VOLTAGE MONITORING

## Phases and voltage under control



KRIWAN  
develops individual  
solutions for  
your needs

The **INT69® UY Diagnose Series** is KRIWAN's solution for reliable and user-friendly protection and monitoring of highly precise and sensitive electric components, drives, and electric consumers.

Malfunctions and the resulting damage in electrical systems can often be traced to increased current loads, incorrect phase sequences, or a fluctuating supply voltage. KRIWAN INT69® UY Diagnose voltage monitors ensure a trouble-free and safe operation of systems, can be completely integrated into networks, and thus supplying valuable data for Condition Monitoring.

### Range of applications

- Water chiller
- Condensing units
- Refrigeration systems
- Water supply and wastewater technology
- Facility /plant automation
- etc.

### Your advantages

- System solutions from a single source: sensor systems, safety and regulating devices, connectivity solutions
- The series covers a wide range of applications
- Can be implemented worldwide with respective approvals
- Development partnership: Customized product variations

## Voltage Monitor INT69® UY Diagnose



### Features

- Monitoring of:
  - Phase sequence
  - Phase failure
  - Phase asymmetry
  - Over-/Undervoltage
  - Optional: Temperature
- Diagnostic interface
- LED as status display
- Monitoring range 80V to 690V (depending on version)
- Integration into superordinate systems and regulators, including for remote monitoring

### BASIC

The efficient solution for small systems where costs are critical

- Monitoring of 1~ **OR** 3~ networks
- Compact housing for screw mounting
- Faston terminals
- Temperature: PTC
- Fixed defined monitoring range
- Diagnosis error memory – BASIC

### ALL-IN-ONE

Flexible use in large systems, plants, high precision and sensitive applications

- Monitoring of 1~ **AND** 3~ networks
- Switching cabinet installation on profile rails
- Push-in terminals, quick and easy wiring
- Temperature: PTC or PT1000
- ⊕ **Programmable** → via INTspector® App
- ⊕ **Expanded intelligence** → with INTspection Memory
- ⊕ **More precise** → accuracy to set value  $\pm 2,5\%$
- ⊕ **Faster** → error detection as of 50 ms

# KRIWAN CONNECTED 4.0

The intelligent KRIWAN Diagnose system is easy to implement, flexible, scalable, and makes reliable and efficient system operation possible with Condition Monitoring.

KRIWAN Diagnose devices save machine and system data which can be viewed on-site with the **INTspector® App** or remotely with integration into a system controller. Integrated in the All-in-One device is the **INTspection Memory** which contains **extended diagnosis error history** for a more detailed failure analysis.



## INTspection Memory – ALL-IN-ONE

- Access to device data and information
- Detailed history of error events
- Sensor data and development before and after the error occurred
- Trend development
- Error counter for all device errors



## Diagnosis error memory – BASIC

- Access to device data and information
- Error list of the last 20 errors
- Historical data, 1 value per 24 h
- Error counter for all device errors



Programming the set values with INTspector® App  
*All-in-One device*

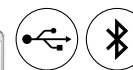


Direct diagnosis with INTspector® App,  
access to device data

OR



INTspector® App



Integration into the system controller  
24/7

## Integration into the system controller

- Converting of KRIWAN Diagnose device data into Modbus protocol with INT®600 DM Gateway (*further protocols upon request*)
- Continuous, long-term monitoring
- Remote maintenance possible



INT69® UY Diagnose

Protection ⊕ Monitoring

Connectivity




INT®600 DM Gateway




System Controller

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