FAFNIR™

VISY

VISY-Command GUI

(English)

END OF LIFE

Version: 2
Edition: 2023-11
Art. no.: 350352

Table of Contents

1 Overview

VISY-Command GUI is an evaluation unit of the **VISY-Command** type with an additional display (GUI) to show current tank data, delivery data and various alarms that are recorded by the **VISY-X system**.

The **VISY-X system** (Volume Information System) a highly precise and continuous level measurement for all commercially available fuels and liquefied petroleum gas (LPG) in up to 16 tanks. Simultaneously the product temperature, product density, water level at the bottom of the tanks, leakage liquids and liquid pressures can be measured and monitored.

The VISY-X system comprises:

- **Sensors for level measurement in tanks:**
  VISY-Stick, VISY-Stick Advanced, VISY-Stick Advanced with VISY-Density module, VISY-Stick Flex, VISY-Stick LPG, ...

- **Evaluation unit:**
  VISY-Command GUI in the variants 2, 4, 8, 16, RF

- **Software to configure VISY-Command GUI and the display:**
  VISY-Setup and VISY-SoftView

Additionally, the following environmental sensors can be operated with the VISY-X system:

- **Leakage monitoring of the manhole or the dispenser sump:**
  VISY-Stick Sump (with continuous leakage measurement) or
  VISY-Reed Sump (with fixed measuring point)

- **Leakage monitoring of intermediate chambers in double-walled tanks:**
  VISY-Stick Interstitial (with continuous leakage measurement) or
  VISY-Reed Interstitial (with fixed measuring point)

- **Leakage monitoring of intermediate chambers, filling lines and product lines from our system partner SBG GmbH, see chapter 1.1.:**
  VIMS sensors (VIMS-Tank, VIMS-Product Pipe, VIMS-Delivery Pipe)

- **Temperature measurement with up to 31 integrated temperature sensors:**
  VISY-Stick Temp

- **Monitoring of hydrostatic pressures:**
  VPS sensors

The measured values of the sensors are recorded, processed and saved by the VISY-Command GUI evaluation unit. The VISY-Command GUI transmits the data on request to a higher-level system (e.g. POS).

This manual describes the differences between the **VISY-Command GUI** and the standard model **VISY-Command**. Further information on the standard model you will find in the following manual:

    📖   VISY-Command (VI-4), art. no. 207184

1.1 Technical Documentation for the VISY-X System

The components belonging to the VISY-X system are described in the following manuals.

Evaluation unit and optional extensions:

📖 VISY-Command GUI, art. no. 350352 (this manual)

📖 VISY-Command (VI-4), art. no. 207184

📖 VISY-RF III wireless system, art. no. 350272 (option)

📖 IFSF-LON interface converter, art. no. 207092 (option)

📖 VISY-ICI 485, art. no. 207150 (option)

Software for the graphical user interface of the VISY-Command GUI:

📖 VISY-SoftView User Guide, art. no.: 350026

📖 VISY-SoftView Administrator, art. no. 350144

Software for configuring the VISY-Command GUI:

📖 VISY-Setup V4..., art. no. 207158

Filling level and environmental sensors:

📖 VISY-Stick VISY-Reed, art. no. 207194

📖 VPS Pressure sensors, art. no. 350204

Transmission and receipt of signals to and from external systems:

📖 VISY-Output 8, art. no. 350072

📖 VISY-Output 1, art. no. 350219

📖 VISY-Input 8, art. no. 207166

For VIMS sensors (option) please contact our system partner:

📖 SGB GmbH, Hofstraße 10, 57076 Siegen, Germany,
T.: +49 271 48964–0, F.: +49 271 48964-6, E.: sgb@sgb.de

2 Safety Instructions

The VISY-X system is designed for the use at petrol stations and is compatible with all commercially available fuels and liquefied petroleum gas (LPG). It serves to measure and evaluate the filling levels in tanks. Use the system exclusively for this purpose. Observe and follow all product safety notes and operating instructions. The manufacturer accepts no liability for any form of damage resulting from improper use.

The system devices have been developed, manufactured and tested in accordance with the latest good engineering practices and generally accepted safety standards. Nevertheless, hazards may arise from their use.

The following safety precautions must be observed to reduce the risk of injury, electric shocks, fire or damages to the equipment:

- Installation, operation and maintenance of the devices must only be carried out by expert personnel.
- Operators, installers and service technicians must comply with all applicable safety regulations. This also applies to the local safety and accident prevention regulations which are not stated in this manual.
- Only use original parts for installation, operation and maintenance. These comply with the technical requirements specified by the manufacturer.
- Do not change, add, modify or repair the equipment of the system without the prior consent of the manufacturer.
- Open housing covers may expose you to the risk of electric shocks. Housing covers must be closed during normal operation.
- The devices must be supplied only with the permitted power.

The safety instructions in this manual are marked as follows:

⚠ *Not observing these safety instructions result in the risk of accident or damages to the system.*

☞ *This symbol indicates useful information, notes and application tips.*

3 VISY-Command GUI

VISY-Command GUI is the evaluation unit **VISY-Command** with display to show current tank data, delivery data and various alarms that are recorded by the **VISY-X system**.

The software VISY-SoftView is installed for the display. It is used to graphically display the user interface and operate the VISY-Command GUI.

The exact designation of the VISY-Command GUI depends on the number of sensor connection terminals, the model and the method of data transmission. The following models of VISY-Command GUI are available:

- **VISY-Command 2 GUI**:   model with 2 sensor terminals
- **VISY-Command 4 GUI**:   model with 4 sensor terminals
- **VISY-Command 8 GUI**:   model with 8 sensor terminals
- **VISY-Command 16 GUI:**   model with 16 sensor terminals
- **VISY-Command RF GUI:**   model as wireless version
- **VISY-Command ... GUI Print:** model with printer

Figure 1: VISY-Command GUI, exterior view

4   Installation

The housing cover must be opened to install the VISY-Command GUI.
A special housing key is provided for this (scope of delivery).

⚠️ *An open housing cover may expose you to the risk of electric shock.*

⚠️ *The wiring must be done only with the power disconnected.*

Figure 2: VISY-Command 4 GUI, interior view
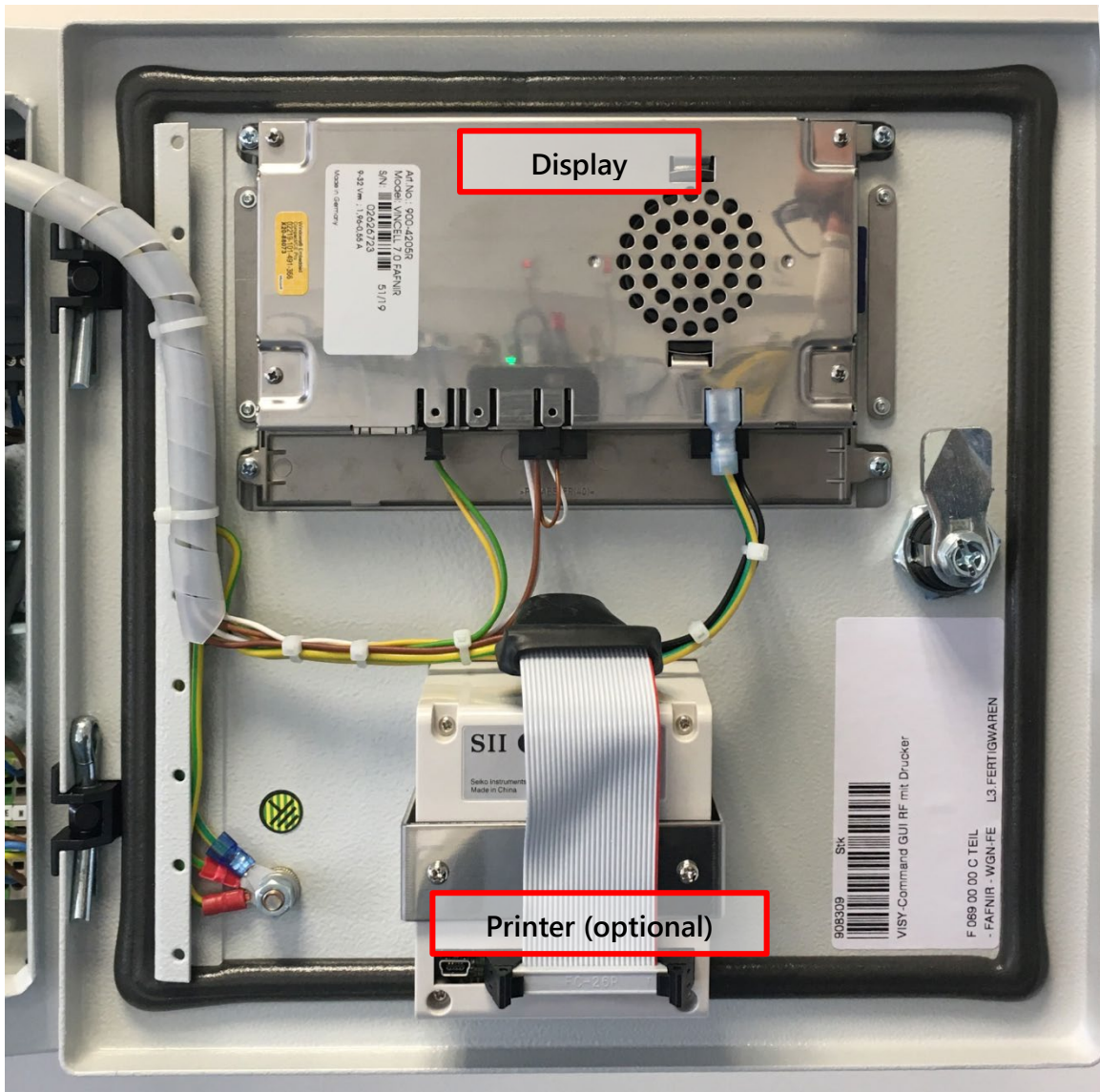
Figure 3: VISY-Command GUI housing cover, interior view

4.1 Display Wiring

The display is built into the housing cover of the VISY-Command GUI and is connected to the RS-485 extension interface of the VI-4 board (see following table):

1	2	3	4	5	6	7	8	9
RxD	TxD	$\perp$	A+	B–	$\perp$	A+	B–	PE
RS-232			RS-485		RS-485			
Host					Extension			$\ominus$

Table 1: Interfaces of the VI-4 board in the VISY-Command GUI

The wiring of the display with the RS-485 extension interface of the VI-4 board is according to the following table:

Interface number	6	7	8
signal	⊥ (GND)	A+	B–
Cable colour	yellow	brown	white

Table 2: Display wiring on the RS-485 expansion interface

4.2   Mounting

⚠️ *The VISY-Command GUI must be mounted inside a building. It is not suitable for outdoor installation.*

⚠️ *The VISY-Command GUI must be installed outside of potentially explosive areas.*

⚠️ *For installing and operating the VISY-Command GUI evaluation unit, the regulations of Industrial Safety and Health Regulations and the Technical Rules for Operational Safety as well as the generally accepted rules of engineering and this manual must be observed.*

⚠️ *This also applies to the local safety and accident prevention regulations which are not stated in this manual.*

☞ *A drilling template is provided for mounting the VISY-Command GUI (scope of delivery).*

4.3   Installation of the Level and Environmental Sensors

Before configuring and operating the VISY-X system, all sensors must be installed and connected to the VISY-Command GUI.

The details on installing the sensors you will find in the manual:

📖   VISY-Stick VISY-Reed, art. no. 207194

The details on connecting the sensors you will find in the manual:

📖   VISY-Command (VI-4), art. no. 207184

4.4 Configuration

The VISY-Command GUI is configured with VISY-Setup software on a PC or notebook.

To use display, the "expansion interface" function must be activated with VISY-Setup, see the following manual:

📖 VISY-Setup V4..., art. no. 207158

The configuration of the display with VISY-SoftView is described in the following manual:

📖 VISY-SoftView Administrator, art. no. 350144

5 Operation

The operation of the display with VISY-SoftView is described in the following manual:

📖 VISY-SoftView User Guide, art. no.: 350026

6 Maintenance

6.1 Servicing

FAFNIR devices are generally maintenance-free.

6.2 Replacement of Components

The VI-4 interface board and the VP-... isolation amplifier board can each be exchanged as a complete assembly. The boards are mounted on a DIN mounting rail from which they can be easily removed using a screwdriver.

6.3 Return Shipment

Before returning any FAFNIR device, the Return Material Authorization (RMA) is required. Please contact your account manager or the technical support team, who will inform you about the details of the return.

Phone	+49 / 40 / 39 82 07 – 0
Availability (CET)	Mon. to Thu. 7:00 a.m. to 5:00 p.m., Fri. 7:00 a.m. to 4:00 p.m.

👉 *The return of FAFNIR devices is only possible with the authorization by the FAFNIR Support Team.*

7 Technical Data

Details on the technical data you will find in the following manual:

📖 VISY-Command (VI-4), art. no. 207184

8 List of Figures

9 List of Tables

10 Annex

Declarations of conformity, approvals and certificates you will find in the following manual:

📖 VISY-Command (VI-4), art. no. 207184