

ET-125-RS422

Falcon Operator Interface

STAHL ET-125-RS422 is an ET-Falcon operator interface for hazardous-area operating and monitoring tasks. The ET-125 platform provides a monochrome graphic display, keypad functions, serial communication and intrinsic-safety system integration for Zones 1, 2, 21 and 22.

IDENTITY	VERIFIED VALUE
Manufacturer	STAHL
Complete model	ET-125-RS422
Product role	Falcon Operator Interface
System family	ET-Falcon-B

Document scope

Exact identity, verified technical data, applications, precautions, model-specific FAQ and controlled acceptance records.

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ET-125-RS422

Technical Specifications

PARAMETER	VERIFIED VALUE
Product identity	ET-125-RS422
Device platform	Falcon
Function	Operator interface
Display	Monochrome graphic LCD
Resolution	240 by 128 pixels
Backlight	LED; approximately 50,000 h at 25 C
Function keys	16
Soft keys	8
Alphanumeric and system keys	23

PARAMETER	VERIFIED VALUE
System LEDs	STOP, COM, ONLINE, ALARM and INFO
Power input	10.8 V DC nominal; 8 to 12.5 V DC via 9143/10
Binary inputs	8 floating contacts, 3.3 V and 2 mA each
Communication	RS-422 bus-compatible connection to 9185/11
Processor	Winbond W77IC32P
Protocol drivers	3 loadable
Operating system	SPSPPlusWIN
Front protection	IP65 when correctly installed
Operating temperature	-20 to 70 degrees C; +60 degrees C for T4 condition

Engineering boundary

Confirm the complete ET-125-RS422 type code, device supplement, power supply, RS-422 fieldbus isolator, Ex certificate, terminal assignment, seal and hazardous-area installation before commissioning.

Functions and Applications

Hazardous-area operation Provides operator monitoring and control functions in the documented zones.	Graphic operator display Shows configured process images, messages and alarms on the monochrome display.
RS-422 fieldbus connection Connects through the documented 9185/11 fieldbus isolator arrangement.	Programmable keypad Combines function, soft, cursor and alphanumeric keys for configured operator actions.

Common Applications

APPLICATION	ENGINEERING CONTEXT
Hazardous process HMI	Provides local monitoring and operator input in an approved Zone installation.
Tank-farm operation	Supports the documented simple automation and access-control tasks.
Serial controller interface	Exchanges process data with a supported automation system through RS-422.
Installed-base HMI renewal	Restores a Falcon terminal from the controlled SPSPlusWIN and protocol records.

Controlled acceptance duty Confirm identity, interfaces, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
1	Verify the complete ET-125-RS422 type code and fifth-supplement applicability.
2	Use the documented 9143/10 supply and 9185/11 communication arrangement.
3	Confirm the applicable ATEX or IECEx installation and marking.
4	De-energize and follow the site hazardous-area work procedure before wiring.
5	Record X1 power, X2 RS-422 and X5 input terminal assignments.
6	Inspect the seal, fixing hardware and mounting surface before installation.
7	Use the approved enclosure and preserve IP65 front sealing.
8	Complete display, keypad, LED, communication, input and alarm tests before release.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
What is STAHL ET-125-RS422?	ET-125-RS422 is a Falcon-platform operator interface with RS-422 communication for hazardous-area applications.
Which zones support STAHL ET-125-RS422?	The Falcon operating instructions cover use in Zones 1, 2, 21 and 22 under the documented conditions.
What display does STAHL ET-125-RS422 use?	It uses a monochrome graphic LCD with 240 by 128 pixel resolution.
How does STAHL ET-125-RS422 communicate?	It uses the documented bus-compatible RS-422 connection through a 9185/11 fieldbus isolator.

Related Products

MODEL	APTER POWER PAGE
Siemens 6AV2124-0MC01-0AX0	View Siemens 6AV2124-0MC01-0AX0
Siemens 6AV2124-0GC01-0AX0	View Siemens 6AV2124-0GC01-0AX0
Allen-Bradley 1756-DHRIO	View Allen-Bradley 1756-DHRIO
Allen-Bradley 2711P-B15C22D9P	View Allen-Bradley 2711P-B15C22D9P

Model-Specific FAQ - Part 2

QUESTION	ANSWER
Which supply arrangement supports STAHL ET-125-RS422?	The operating instructions specify 10.8 V DC nominal through the 9143/10 power supply.
How many function and soft keys support STAHL ET-125-RS422?	The ET-125 configuration lists 16 function keys and eight soft keys.
Which software supports STAHL ET-125-RS422?	The Falcon platform uses SPSPPlusWIN for configuration and operation.
What confirms STAHL ET-125-RS422 commissioning?	Verify power, Ex installation, seal, display, keypad, LEDs, RS-422 communication, binary inputs and configured alarms.

Related Products and Release

MODEL	APTER POWER PAGE
Allen-Bradley 2711P-T10C4D1	View Allen-Bradley 2711P-T10C4D1
Yokogawa AIP830-101 S2	View Yokogawa AIP830-101 S2
Pepperl+Fuchs KFD2-SOT3-EX1.LB	View Pepperl+Fuchs KFD2-SOT3-EX1.LB
Pepperl+Fuchs HD2-DM-B	View Pepperl+Fuchs HD2-DM-B

MANUFACTURER SOURCE RECORDS

1. R. STAHL HMI Systems ET-Falcon-B Operating Instructions, version 02.05.02
2. R. STAHL ET-125-B RS-422 technical, commissioning and hazardous-area requirements

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