

Installation Identity and Scope

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.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	ET-125-RS422
Manufacturer	STAHL
Hardware role	Falcon Operator Interface
System family	ET-Falcon-B

Controlled engineering copy

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.

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ET-125-RS422

Pre-Installation Plan

NO.	REQUIRED ACTION
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.

Before Energization

CONTROL	REQUIRED RECORD
Identity	Complete ET-125-RS422 marking and hardware role
Connections	Approved power, grounding and protocol interfaces
Configuration	Controlled backup, addressing and protocol files
Test plan	Defined acceptance values and controlled restart authority

Release hold point

Do not disturb the installed device until exact marking, interfaces, companion hardware and configured function are documented.

Wiring, Network and Configuration Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
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
System LEDs	STOP, COM, ONLINE, ALARM and INFO

Configuration 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.

Expected Technical Values

PARAMETER	VALUE
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

Additional Official Data

PARAMETER	VALUE
Protocol drivers	3 loadable
Operating system	SPSPlusWIN
Front protection	IP65 when correctly installed
Operating temperature	-20 to 70 degrees C; +60 degrees C for T4 condition

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	Manufacturer and complete ET-125-RS422 marking match the record.
Power	Measured supply agrees with the documented operating requirement.
Interface	Connectors, addressing and network parameters match the approved project.
Configuration	Protocol files, framing and mapped data areas match the controlled backup.
Diagnostics	No unexplained status, counter or communication fault remains.
Functional proof	Controlled bidirectional data transfer completes successfully.
Release	Final values and test results are retained with restart approval.

Questions to Resolve

QUESTION	ENGINEERING 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.

Related Products

MODEL	APTER POWER PAGE
Pepperl+Fuchs MBHC-FB-4R	View Pepperl+Fuchs MBHC-FB-4R
ProSoft 5201-DFNT-EGD	View ProSoft 5201-DFNT-EGD
GE IC670PBI001	View GE IC670PBI001
Bently Nevada 3500/92-04-01-01	View Bently Nevada 3500/92-04-01-01

Source, Related Products and Release

MODEL	APTER POWER PAGE
Pepperl+Fuchs HD2-DM-B	View Pepperl+Fuchs HD2-DM-B
Pepperl+Fuchs MBHC-FB-4R	View Pepperl+Fuchs MBHC-FB-4R
Pepperl+Fuchs KFD2-SOT3-EX1.LB	View Pepperl+Fuchs KFD2-SOT3-EX1.LB
Allen-Bradley 1747-SN	View Allen-Bradley 1747-SN

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

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	ET-125-RS422 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
Functional proof	Controlled test completed without unexplained fault

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