



THE STRONGEST LINK.

STAHL

STANDARD FOR REMOTE I/O IS1+

Versatile enclosures, fast availability

IS1+ REMOTE I/O

LEADING TECHNOLOGY FOR HAZARDOUS AREAS



IS1+ is the world's most successful Remote I/O system for use in Zone 1.

Besides flexibility it also impresses with quality and innovative functions.

IS1+ supports HART and the most common fieldbus protocols in process engineering.

Installation according to ATEX and IECEx in either Zone 1 or Zone 2 and for NEC 500 in Division 1 or Division 2 – without flameproof enclosures, but with full hot-swap functionality for all modules.

IS1+ offers an extensive range of I/O modules for intrinsically or non-intrinsically safe signals. International certificates for hazardous areas and shipbuilding applications permit global implementation in virtually all applications.

COMPETENT AND FLEXIBLE

STANDARD AND CUSTOMISED SOLUTIONS



MODBUS RTU
MODBUS TCP



EtherNet/IP[®]
conformance tested



HART[®]
COMMUNICATION PROTOCOL



IS1+ Remote I/O offers great flexibility for widely varied purposes. Our extensive accessory and enclosure range and experience have resulted in many customised system solutions.

In turn, we have learned a lot from our customers and their requirements. Today we know that a smart standard solution can cover most requirements – with the advantage of much shorter lead times!

So why not benefit from our experience and enjoy your own flexibility- and diversity-based standard solution within the shortest space of time. And if STANDARD does not fit the bill, then try out our STANDARD+. And of course we continue to offer custom-made solutions for your application.

FAST AVAILABILITY

DELIVERY IN JUST THREE WEEKS

IS1+ standard enclosures provide customers with a choice of prefabricated field enclosures for installation in Zone 1 and shorter lead times.

- Rugged stainless steel enclosure AISI 304 (1.4301) for Zone 1
- Prepared and operational for the IS1+ Remote I/O
- No additional approval or certification necessary
- For up to 112 analog or 224 digital intrinsically safe signals
- Preconfigured with all accessories and assembly parts
- Complies with IEC/EN 61439 requirements

USER-FRIENDLY:

Front door with cover support and cam locks, tag label for Zone 1

EQUIPPED AND WIRED:

BusRail, Zone 1 CPM base, cable ducts, shielding bar, connection terminals for power supply

READY FOR INSTALLATION:

Stainless steel enclosure AISI 304, cable glands, breathing glands and earth connection



For further information and technical data visit www.is1plus.com at **Webcode 8150D**

General technical features

ATEX APPROVAL	Ex II 2 G Ex de ib [ia Ga] IIC T4 Gb
IECEX APPROVAL	II 2 G Ex de ib [ia Ga] IIC T4 Gb
INSTALLATION	Zone 1
AMBIENT TEMPERATURE	-20...+50 °C (full expansion)
MATERIAL	Brushed stainless steel, 1.4301 (V2A, AISI 304)
PROTECTION TYPE	IP65
CABLE GLANDS	Polyamide, M32 x 1.5 for power supply, M20 x 1.5 for signals and M25 breathing glands
POWER SUPPLY	24 V DC (20...35 V DC)
AVAILABLE MODULES	Zone 1 CPM PROFIBUS DP or Modbus RTU Ex i I/O: AIO 9468, DIO 9470, DO 9475, TI 9482

OUR STANDARD FOR ZONE 1

EASY SELECTION, FAST QUOTES, SHORT LEAD TIMES



SIZE	360 x 750 x 230 mm
FOR MODULES	1 x CPM and 5 x I/O modules *)
NO. OF SIGNALS	Max. 40 analog/80 digital
CABLE ENTRIES	56 x M20 signals; 2 x M32 auxiliary power
FRONT PART	Opening upwards, 3 cam locks, cover support
ORDER NUMBER	244147



SIZE	600 x 600 x 230 mm
FOR MODULES	1 x CPM and 7 x I/O modules *)
NO. OF SIGNALS	Max. 56 analog/112 digital
CABLE ENTRIES	58 x M20 signals; 2 x M32 auxiliary power
FRONT DOOR	Opening to the left, 5 cam locks
ORDER NUMBER	244142



SIZE	760 x 760 x 300 mm
FOR MODULES	1 x CPM and 8 x I/O modules *)
NO. OF SIGNALS	Max. 64 analog/128 digital
CABLE ENTRIES	98 x M20 signals; 2 x M32 auxiliary power
FRONT DOOR	Opening to the left, 5 cam locks
ORDER NUMBER	244144



SIZE	360 x 1300 x 230 mm
FOR MODULES	1 x CPM and 8 x I/O modules *)
NO. OF SIGNALS	Max. 64 analog/128 digital
CABLE ENTRIES	82 x M20 signals; 2 x M32 auxiliary power
FRONT DOOR	Opening upwards, 4 cam locks, cover support
ORDER NUMBER	244143



SIZE	800 x 1000 x 300 mm
FOR MODULES	2 x CPM and 2 x 7 I/O modules *)
NO. OF SIGNALS	Max. 112 analog/224 digital
CABLE ENTRIES	130 x M20 signals; 2 x M32 auxiliary power
FRONT DOOR	Opening to the left, 6 cam locks
ORDER NUMBER	244146

MORE FLEXIBILITY WITH STANDARD+

MANY OPTIONS FOR SPECIAL APPLICATIONS

If STANDARD doesn't fit, try out our STANDARD+ for size.

Extend implementation possibilities through many additional applications: from heaters for extremely low ambient temperatures to cable entries for armoured cables – we have the portfolio to match.

Special versions and options

INSTALLATION	Zone 2/Zone 21/Zone 22/non-ex
MATERIAL	1.4404 (V4A, AISI 316L)/coating
FRONT DOOR	Door stop on right/front glass in door (max. 500 x 500 mm)
HEATING	Against condensation/for ambient temperature < -20 °C
CABLE ENTRIES	Brass/nickel-plated brass/stainless steel/for armoured cables
STOPPING PLUG	Polyamide/brass/nickel-plated brass/stainless steel
FLANGE	3 mm/5 mm
TAG LABEL	Resopal/stainless steel/glued/screwed (+ text field)
INTERNAL WIRING	Halogen-free/single core marking
AUXILIARY POWER	115 V AC ... 230 V AC
REDUNDANCY	System redundancy (redundant CPM)
FIELDBUS	Fibre optic

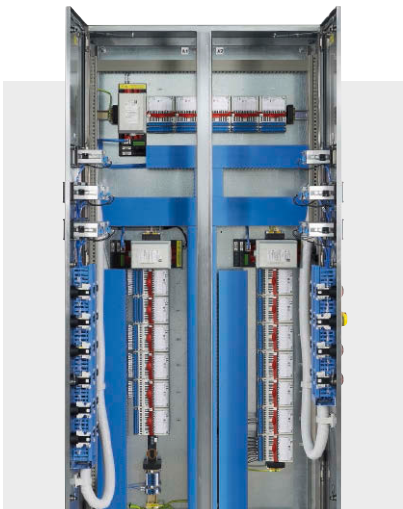


NO STANDARD? NO PROBLEM!

CUSTOMISED SOLUTIONS TO SUIT ALL NEEDS

From the initial concept to project implementation R. STAHL is an expert partner to have at your side. Thanks to our international experience with a wide variety of system solutions in explosion

protection we are sure to find an appropriate solution for you. We are also happy to support you with commissioning and maintenance work.



Zone 1 cabinet with double door and 3 Remote I/O systems



Zone 1 field station with Ethernet Remote I/O and integrated valve terminal (DOMV series 9478)



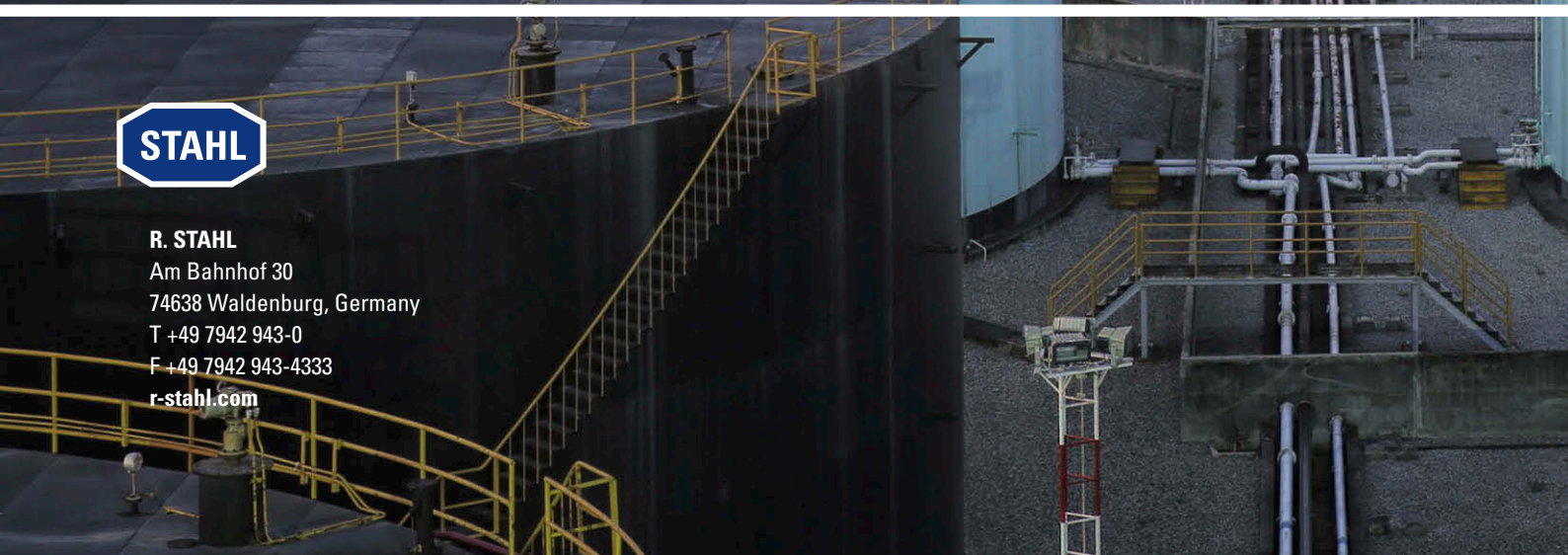
Zone 2 field station with front components and protective screen



Zone 1 field station with PROFIBUS DP, Remote I/O and FF H1 fieldbus couplers



ID 249855 | 2016-02 / EN-01 | Printed in Germany



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