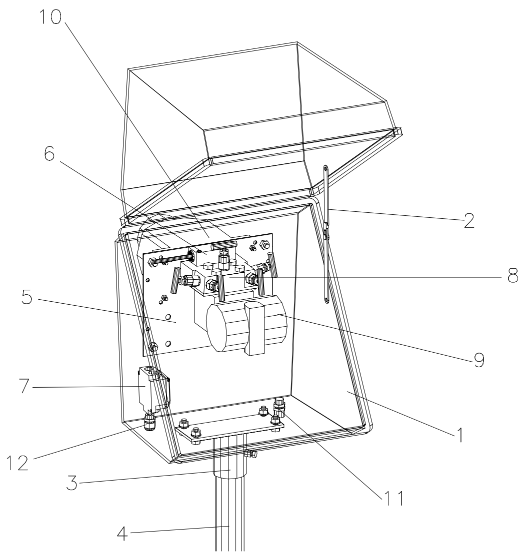
SAFE LINK Complete Solution for Field Instrumentation

1. Introduction

INTERTEC introduces SAFE LINK, a **Complete Solution** concept for field instrumentation, which includes everything **from engineering to on site delivery** of prefabricated hook-ups, for transmitters, pressure switches or pressure gauges, in an intelligent **remote installation**, or in an innovative **close coupled** concept. SAFE LINK makes the engineering and construction of instrument installations **cost effective** and can be applied in grass-root projects, plant engineering projects, revamps or maintenance applications.

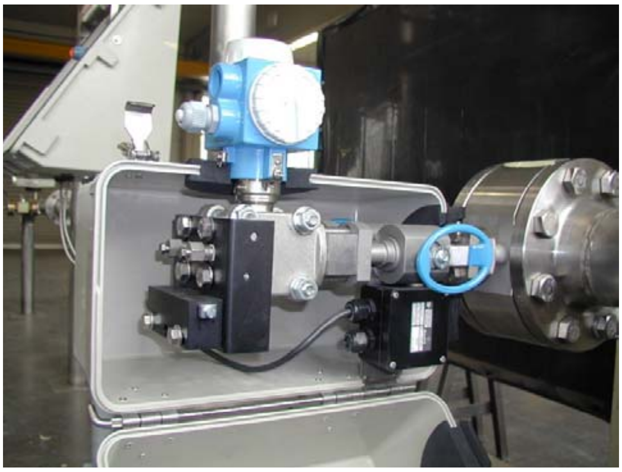
Why re-invent the wheel…?

Standardization is the keyword. Although corporate standards are usually available, other details are used on different sites or by other engineers. The Intertec SAFE LINK software (ISL) helps to standardize by means of **pre-engineered designs**. Designs can be selected by the system; in addition, the end-user's **corporate typicals** can be entered into the program and used as well.
SAFE LINK is a **modular based system**, which is **flexible** and enables easy creation of customized standards as well as special applications.



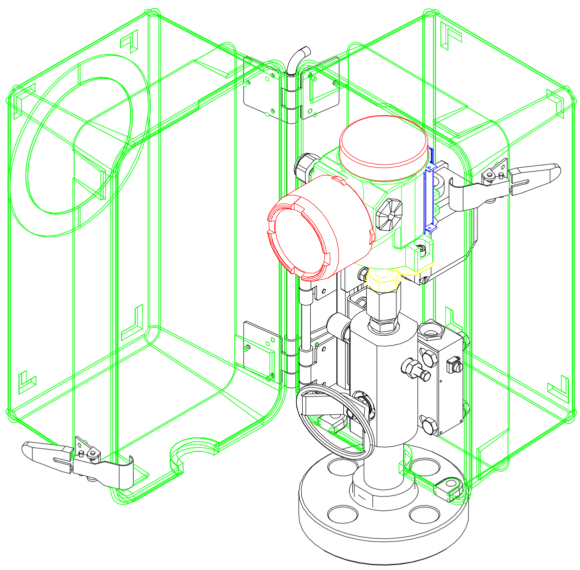
SAFE LINK includes:

- Planning
- Engineering
- Complete pre-assembling and testing of the hardware
- On-site delivery, tagged, ready to install
- Documentation including installation drawings, material certificates (3.1B), mounting instructions, part lists, etc.



Benefits of SAFE LINK

- Standardization **reduces variability** of instrument installation
- Software package **reduces engineering time** and cost
- Pre-assembling concept **reduces construction time** and cost
- Covers traditional **remote mounting** and innovative **close coupling** concepts
- **Improves transmitter performance**
- **Reduces maintenance calls** and costs



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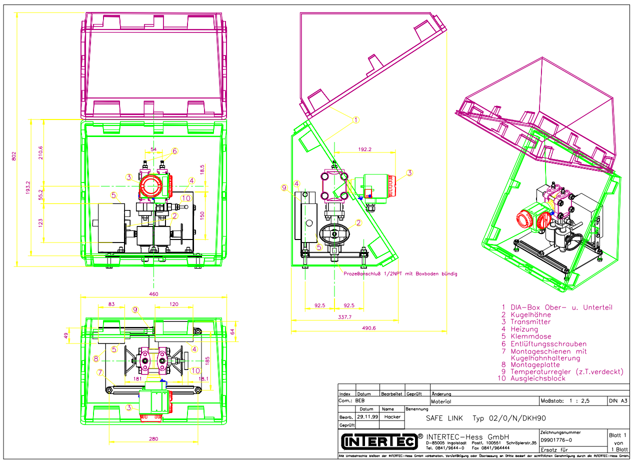
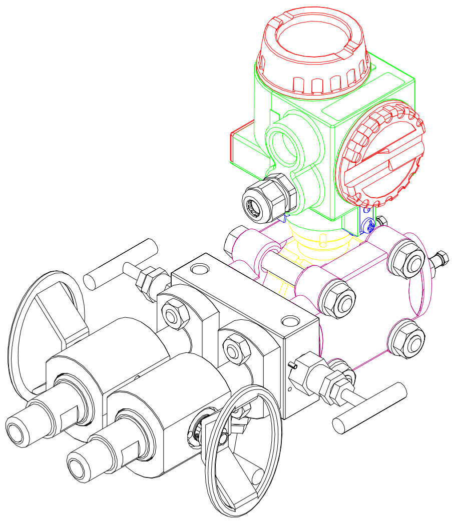
2. Engineering tool

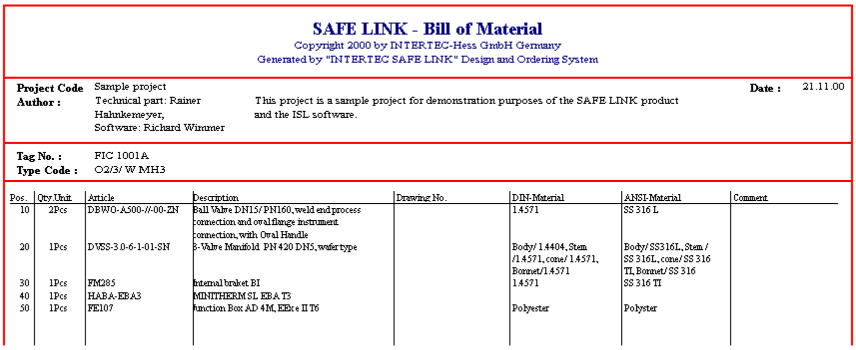


With the **ISL selection software**, INTERTEC provides the engineering department or contractor with an excellent tool for **engineering and selecting hook-ups**. This tool is an ACCESS® based program and its databases are open to enter the user's standards and typicals.

Features of ISL:

- **Selects** the right hook-up. Can be used for both **closed coupled** and **remote mounting** concepts.
- Generates **3D-drawings** of **pre-engineered** installation and **specification** sheets
- Automatically generates a **model number**
- **Step by step** selection or selection from **template** list
- Open for **end user's** drawings, corporate standards and typicals
- Helps you to **standardize** on your field instrumentation.
- Generated reports:
    - Material lists per tag
    - List sorted per SAFE LINK type code
    - List sorted per tag
    - Spec sheet sorted per tag
    - Spec sheet sorted per type code
    - Etc.





SAFE LINK - Bill of Material

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Project Code Sample project **Date :** 21.11.00

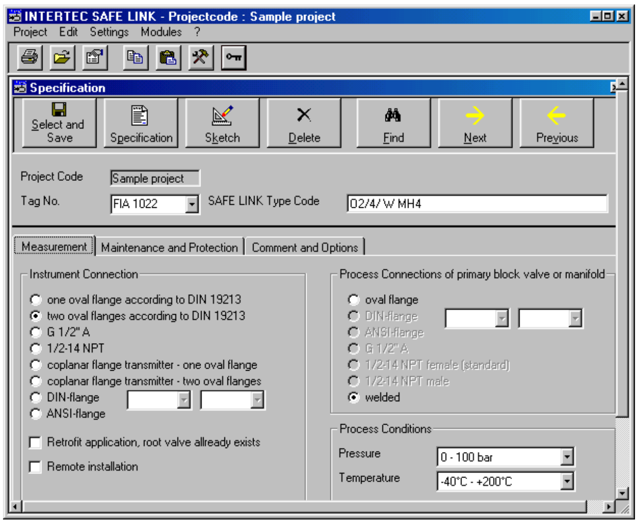
Author : Technical part: Rainer Hahnkemeyer, Software: Richard Wimmer

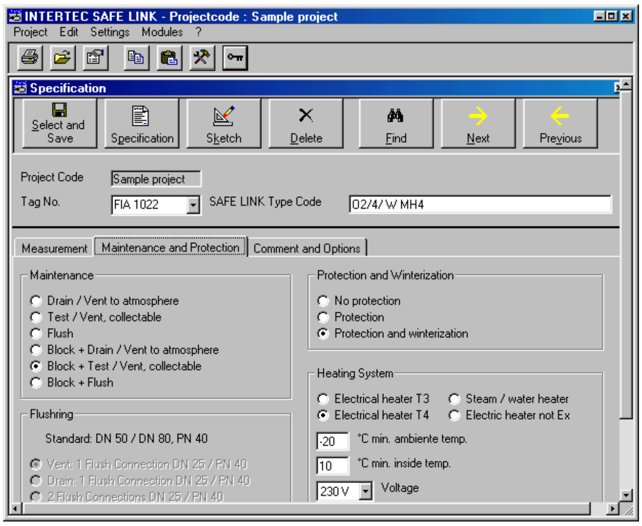
This project is a sample project for demonstration purposes of the SAFE LINK product and the ISL software.

Tag No. : FIC 1001A

Type Code : O2/3/ W MH3

Pos.	Qty. Unit	Article	Description	Drawing No.	DIN-Material	ANSI-Material	Comment
10	2Pcs	DBWO-A500-//-00-ZN	Ball Valve DN15/ PN160, weld end process connection and oval flange instrument connection, with Oval Handle		1.4571	SS 316 L	
20	1Pcs	DVSS-3.0-6-1-01-SN	3-Valve Manifold PN 420 DN5, wafer type		Body/ 1.4404, Stem /1.4571, cone/ 1.4571, Bonnet/1.4571	Body/ SS316L, Stem / SS 316L, cone/ SS 316 TI, Bonnet/ SS 316	
30	1Pcs	FM285	Internal braket BI		1.4571	SS 316 TI	
40	1Pcs	HABA-EBA3	MINITHERM SL EBA T3				
50	1Pcs	FE107	Junction Box AD 4M, EEx e II T6		Polyester	Polyster	





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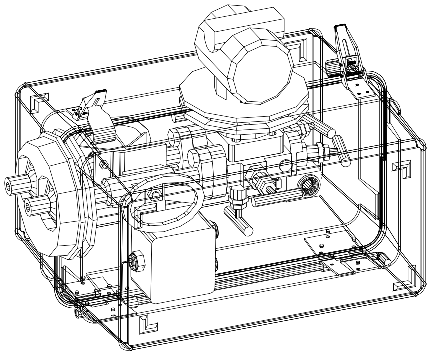
3. Hardware

The SAFE LINK close coupling concept provides you with the **best practice** technology for mounting DP based transmitters and other field instrumentation like pressure gauges and switches.

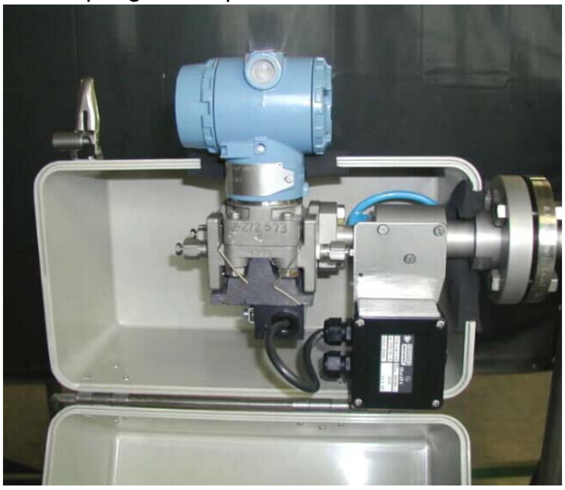
The **prefab character** of the SAFE LINK concept makes the end user independent of the quality of workmanship at the site.

Intertec is a manufacturer of instrument installation systems, instrument protection boxes and sunshades with all its features, heaters and cabinets.
For **35 years** we have supplied you with our MULTIBOXES, DIABOXES and MINIBOXES, mounting rails, entries, pipe stands, Ex-proof electrical heaters and a wide spectrum of mounting accessories.
Now you can **standardize** on your plant typicals. We have years of experience in instrument installation for many major customers all over the world.

With the SAFE LINK concept, Intertec helps to engineer hook-ups and provides the pre-assembled hardware.
The hook-ups are delivered on site as one device, bagged and tagged, pressurized and tested with all required certifications and documents.



Close coupling: The up-to-date solution



Remote Installation: Proven Technology

Pre-assembled hook-up for remote mounting for safety application

SAFE LINK provides standard solutions for

- Pressure-, flow- and level measurements for all gases, liquids and steam.
- Integrated orifice-flow applications.
- All **H-style** transmitters (IEC 61518) and Rosemount coplanar-flange transmitter.
- Remote seal transmitters.
- Pressure **gauges** and pressure **switches**
- With standard **½" ball valve, gate valve** or with the primary root valve according to **end-user's specs**.
- With special root valve for high pressure natural gas applications.
- Integrated prismatic flow sensor.
- Etc.

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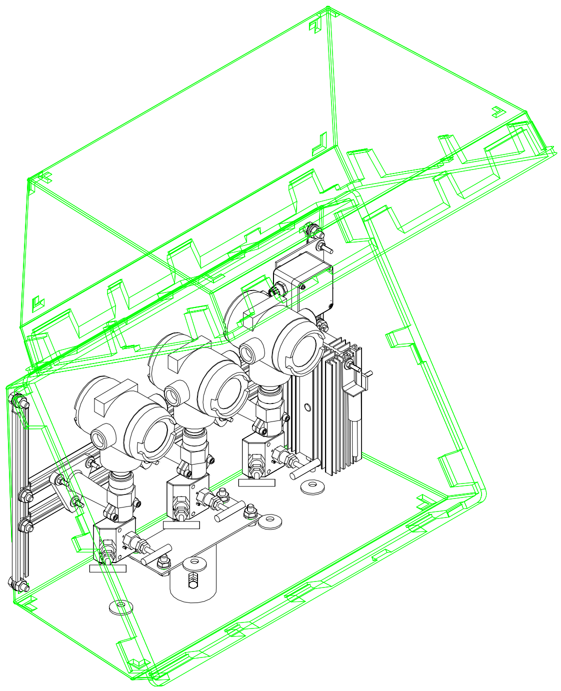
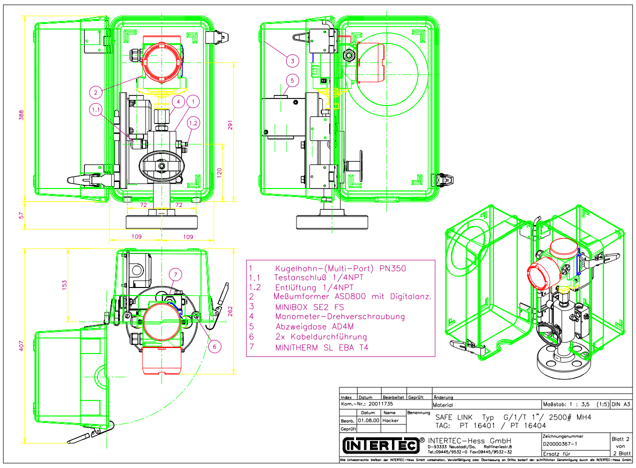
4. Typical Applications

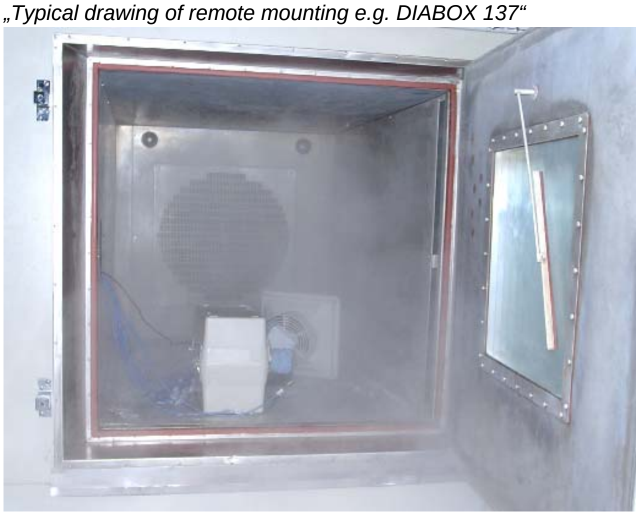


„Typical drawing of remote mounting e.g. DIABOX 137“



Typical drawing of close coupling pressure measurement e.g. MINIBOX

**“Do You have any applications?
Please ask INTERTEC for the solutions.”**



Test at ambient conditions of -47°C plus wind chill carried out in a climate chamber.