GAS SOUZAN PTZ bracket for turbine meters

Introduction
This document describes the mounting kit for the installation of our volume converter GAS SOUZAN onto the Fluxi 2000/TZ meters. This equipment is available from September 2017.

1) Benefits
- Essential complement to the Fluxi 2000/TZ and the GAS SOUZAN PTZ converter.
- Easy installation onto the meter.
- Large flexibility to install the converter at the most convenient position.
2) Description
a) Panel: It gives the possibility to mount the converter onto the meter in different positions depending on the available space.
b) Shaft: It insures the connection between the panel and the bar. It is fixed at the backside of the panel.
c) Bar: To be mounted onto the body of the meter. It allows different assembling positions.
d) 3 way-valve: It allows the calibration or the checking of the pressure sensor in the field without breaking the metrological seals.
   - Maximum pressure: 100 bar.
   - The connecting nut used allows an easy mounting without twisting the cable of the pressure sensor.
   - The connection to the external pressure source is an Ermeto 6L.
e) U-clamp: it is mounted around the neck of the turbine meter to fix the bar.
f) Connection Pm: to mount the 3 way-valve onto the meter.
Parts a, b, c, d are the same for turbine meters and delta meters. The part e is used only with turbine meters, the part f is different for Delta and turbine meters (¼” NPT/BSP).
3) Mounting onto the Fluxi 2000/TZ

**Step 1:** Mounting of the bar with the U-clamp and 2 nuts at the neck of the Turbine meter.

**Step 2:** Mounting of the shaft and panel. 3 different positions are possible when assembling the 2 parts. For the mounting use 2 clamps (951-860-07), 4 screws (I01207-M06006-03). Important: don’t forget the washer (900-125-08) under the screw heads.

**Step 3:** Mounting of the 3-way valve onto the turbine-meter

**Step 4:** Installation of the GAS SOUZAN PTZ with 4 screws onto the panel, connection of the pressure and temperature sensors then sealing.

Cables of the converter have to be rolled and tied up behind the panel.
Note: The GAS SOUZAN PTZ is available with 2 length of cable; 0,8m and 2,5m. The length has to be specified when ordering the GAS SOUZAN.

Possible installations
Mounted on the meter: The Converter can be installed in all positions around the index then it allows the installation even in case of restricted available space.
4) Instruction to use the 3 way-valve for the calibration of the pressure sensor
Position “A”: In service, the pressure sensor is connected to the meter.
Position “B”: Test with the Pm source (the meter), the 3 ways are connected.
Position “C”: Test with an external pressure source, the pressure sensor is connected only to
the external pressure source.

Metrological Sealing of the GAS SOUZAN PTZconverter on the meter:
When requested, this operation can be done at Karlsruhe. In this case, the PTB
seals are used.
Before ordering this operation, you must check that your local authority will
recognise this
sealing.
5) Transport and installation
The transport of a complete assembled meter + converter is not the optimal
solution in term
of size of packing compared to the actual packing for a meter alone + 1 converter
alone,
especially for overseas shipping.
As the assembly is quite easy, we recommend assembling it on site after the
installation of the
meter in the piping.
Annex 1: Articles references
Bracket for the Fluxi 2000/TZ + 3 way-valve kit : 046-200-00
3 way-valve kit without bracket for the Fluxi 2000/TZ : 951-847-47

Annex 2: Overall dimension:
Please take care of the overall dimension if the space is limited in the installation.

<table>
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