



For hazardous areas
Zone 1 and 21

DMT 02 ATEX E 086

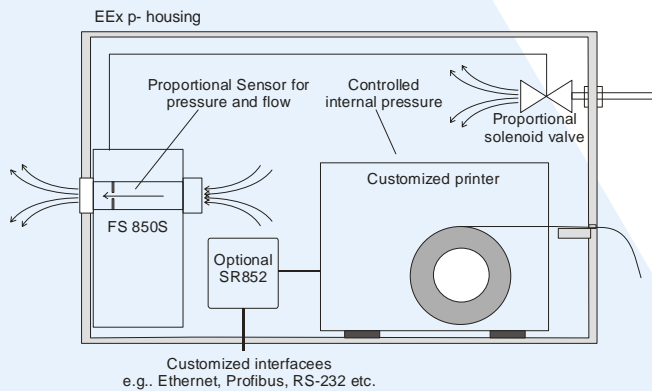
Properties

- 👍 **Direct operation in Ex-area Zone 1 and 21**
- 👍 **Customized stainless steel housing**
- 👍 **Direct paper withdrawal in hazardous area possible**
- 👍 **Control elements for printer integrated in front**
- 👍 **Patented Ex p system for highest operational availability and minimum air requirement**
- 👍 **Customized interfaces**

Application examples



Schematic diagram



Description

These customized industrial printer solutions are conceived for the direct employment in the Ex Zones 1 and 21.

In combination with the protection class "pressurized enclosure" (EEx p), stainless steel housings are applied, which are suitable for the use in raw industrial field.

The complete application features an ATEX compliant approval, based on the EC- type certificate DMT 02 ATEX E 086. This achieves a realization of your Ex-printer project at optimal time and cost.

Using label printer applications, a direct paper withdrawal in the hazardous area is possible. The paper emission is realized by an adjustable slot in the Ex-p housing.

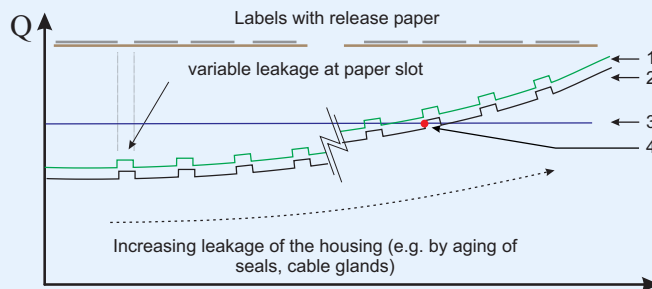
This causes the specific difficulty of excursive changes of the housing leakage at the slot as a result of the change of paper thickness at the initial and end point of each label (see figure left).

The patented control unit FS850S achieves, in connection with the SVP proportional valve at the inlet, a minimum purging gas consumption in combination with highest working reliability.

With the FS850S, creeping leakage rates, caused e.g. by aging of the housing seals or cable glands do not lead to early failures as at conventional Ex-p systems.

The concept offers highest realization flexibility: most diverse printer models, interfaces as well as windows and control elements e.g. buttons for line feed or print abort can be inserted. Also mobile solutions are realizable!

System availability / Purge gas consumption



- 1) FS850S with PID-controlled pressure during purging and normal operation!
- 2) Air requirement Ex-p application
- 3) Leakage compensation by conventional Ex-p System
- 4) Early loss of conventional Ex-p System!

