

Ex-i Separation Modules TS-...-1



Ex-i Separation Modules:
TS-Ethernet/IP-1
TS-Profinet-1
TS-Profibus-1
TS-Modbus-1
TS-DAM-1

TS-...-1 – Technical Data

Intended Use

The TS-...-1 can be used to connect a model IT8000Ex or IT3000Ex weighing terminal to a fieldbus (Profinet, Profibus DP, Ethernet/IP or Modbus® TCP) via the intrinsically safe 10mA interface. The TS-DAM-1 provides an analog output. The device TS-...-1 also provides the power supply for the connected weighing terminal from non-hazardous areas.

ATEX approval

The TS-...-1 must not be installed in hazardous area. The internal 10mA separation module is certified for:

- II (2)G [Ex ib Gb] IIC (gas)
II (2)D [Ex ib Db] IIIC (dust)

Power supply

100–240 V AC, 50/60 Hz.

Operating temperature

–10 °C (+14 °F) to +40 °C (+104 °F), 95 % relative humidity, non-condensing.

Integrated modules

Fieldbus module for Profinet, Profibus DP, Ethernet/IP or Modbus® TCP.

TS-DAM-1: Analog output module.

Ex separation module TS10mAEx with intrinsically safe 10mA interface to connect to the external intrinsically safe 10mA interface of the IT8000Ex or IT3000Ex weighing terminal.

Internal power supply unit to provide power supply for the internal components as well as the IT8000Ex or IT3000Ex weighing terminal.

Internal Ethernet connection module with RJ45 socket to connect to IT CONFIGURATOR for service purposes.

Connectivity

Fieldbus:

- TS-Ethernet/IP-1** with two M12 sockets.
- TS-Profinet-1** with two M12 sockets.
- TS-Profibus-1** via internal screw terminals.
- TS-Modbus-1** with one M12 socket.

TS-DAM-1:

Data line via internal screw terminals.

IT8000Ex and IT3000Ex:

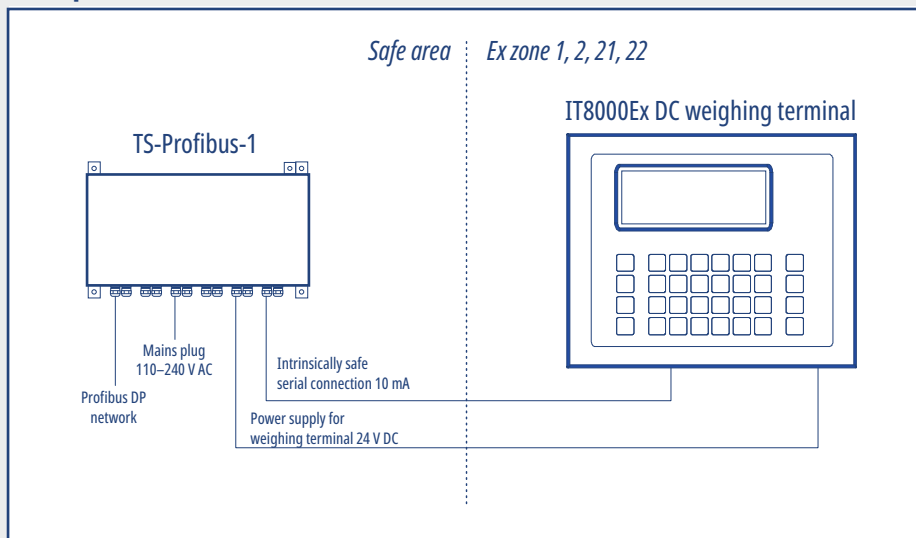
Power supply and data line via internal screw terminals

Options

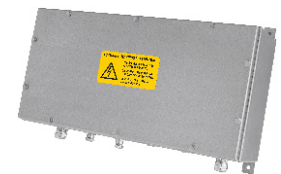
Connection cable for Ethernet/IP / Profinet / Modbus® TCP

with M12 and RJ45 connector or two M12 connectors for non-hazardous area.

Example: Connection of TS-Profibus-1 to IT8000Ex:



Dimensions



- Stainless steel housing, IP65
- Wall-mount installation
- Dimensions W x H x D:

Directives: 2014/35/EU, 2014/30/EU,
2014/34/EU

Standards: EN 60950-1, EN 61000-6-2/-3,
EN 62368-1,
EN 60079-0/-7/-11/-31



EtherNet/IP™



Modbus®

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Sales and service

Subject to change without notice

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