



Ex Separator Module iXT

Intelligent Ex separation interface
for Ex-safe connection of correlation
sensors

ELECTRONICS

ACOUSTIC

WEIGHT

OVERLOADING
SAFETY SYSTEMS

VALVES

TEMPERATURE

DETECT
A FIRE®

FLOW

DENSITY

INTERFACE

PRESSURE

LEVEL



Intelligent Ex Separation Module for the Ex-safe connection of correlation sensors type POA, CS2, OCL, OFR radar sensors as well as CSM and DSM in conjunction with the EBM Electronics Box to the NivuFlow 550/750/7550 transmitters.

Ex-safe connection of particle concentration sensors type PKM to the NivuParQ 850 transmitter.

Connectable Sensors

Flow velocity sensors

- POA
- CS2
- CSM/DSM sensors via electronics box
- OFR

Level sensors

- OCL
- i-Series
- Ri-Series
- NivuBar

Technical Specifications

Power supply	12 V DC (from NivuFlow / NivuParQ transmitter); for use in connection with equipment on mains up to overvoltage category II or on SELV - Ex-technical: $U_m = 253 \text{ V AC}$
Power consumption	Max. 9 W
Intrinsic Power Consumption	Max. 1.5 W (typ. 1.2 W)
Protection	IP20, for installation in areas up to max. pollution degree 2
Ex-Approval	- ATEX: TÜV I4ATEX I42076 - IECEX: TUN14.0014 - EX II (2)G [Ex ib Gb] IIB
Operating temperature	-20...+40 °C
Storage temperature	-20...+85 °C
Max. humidity	95 %, non-condensing
Inputs (incl. options)	2x analogue 4-20 mA loop-powered sensor connection Ex ib Gb IIB, one of them with HART capability Maximum values per circuit: $U_o = 25.4 \text{ V}$ / $I_o = 89.2 \text{ mA}$ / $P_o = 566.5 \text{ mW}$ 4x sensor connection Ex ib Gb IIB with RS485 interface Maximum values per circuit: - Supply: $U_o = 10.5 \text{ V}$ / $I_o = 640 \text{ mA}$ / $P_o = 6.72 \text{ W}$ RS485: $U_o = 4.1 \text{ V}$ / $I_o = 105 \text{ mA}$ / $P_o = 108 \text{ mW}$ $U_i = 11 \text{ V}$ / $I_i = 176 \text{ mA}$ / $P_i = 482 \text{ mW}$ Isolation Voltage $U_m = 253 \text{ V AC}$
Outputs	1x Transmitter connection RS485 interface

Specifications subject to change