

Process Analysis Systems

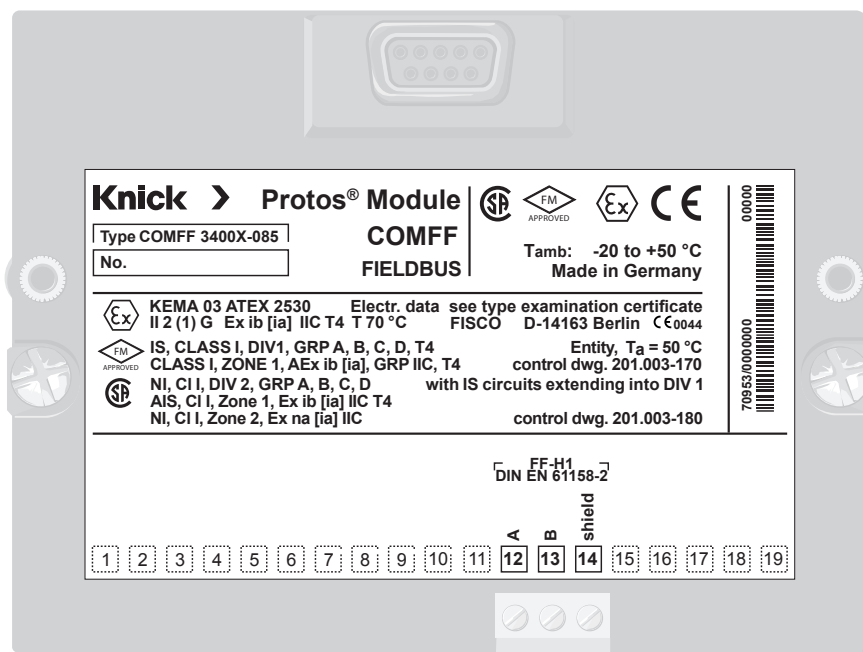
Protos® 3400 (X)

Specifications COMFF 3400 X-085 module

FF-H1 (Ex) ¹⁾	digital communication in hazardous areas via current modulation
Physical interface	to EN 61158-2 (IEC 61158-2)
Transfer rate	31.25 kbit/s
Communication protocol	FF-816
Profile	FF-890, FF-891
Bus address	visible on the device but not adjustable
Supply voltage (FISCO)	bus supply: 9 ... 17.5 V linear barrier: 9 ... 24 V
Current consumption	< 12 mA
Max. current in case of fault (FDE)	< 17 mA
FF communication model	certified to ITK 4.6
1 resource block	Device Description
5 transducer blocks	connection to signal processing
8 AI function blocks	output of measured values with status via the Fieldbus
1 AO function block	control via the Fieldbus for cross calculation
4 DI function blocks	output of messages with status via the Fieldbus
4 DO Function blocks	control via the Fieldbus
Explosion protection	IECEX: Ex ib [ia] IIC T4 ATEX: II 2 (1) G Ex ib [ia] IIC T4 FISCO FM: IS, Class 1, Div 1, GRP A, B, C, D, T4, Entity Class I, Zone 1, A Ex ib [ia], GRP IIC, T4 CSA: NI, Class I, Div 2, GRP A, B, C, D, with IS circuits extending into Div 1 AIS, Class I, Zone 1, Ex ib [ia] IIC T4 NI, Class I, Zone 2, Ex nA [ia] IIC GOST: 1 Ex ib [ia] IIC T4 NEPSI: Ex ib [ia] IIC T4
EMC	NAMUR NE 21 and EN 61326
Emitted interference	Class B
Immunity to interference	Industry
Lightning protection	EN 61000-4-5, Installation Class 2
Nominal operating conditions	ambient temperature: -20 ... +55 °C (Ex: max. 50 °C) relative humidity: 10 ... 95 %, not condensing
Transport/Storage temperature	-20 ... +70 °C
Module enclosure	material: PC/ABS blend
Color	black
Protection	IP 20
Dimensions (mm)	w x h x d: 118 x 91 x 21
Terminals	screw clamp connection, single wires and flexible leads up to 2.5 mm ²

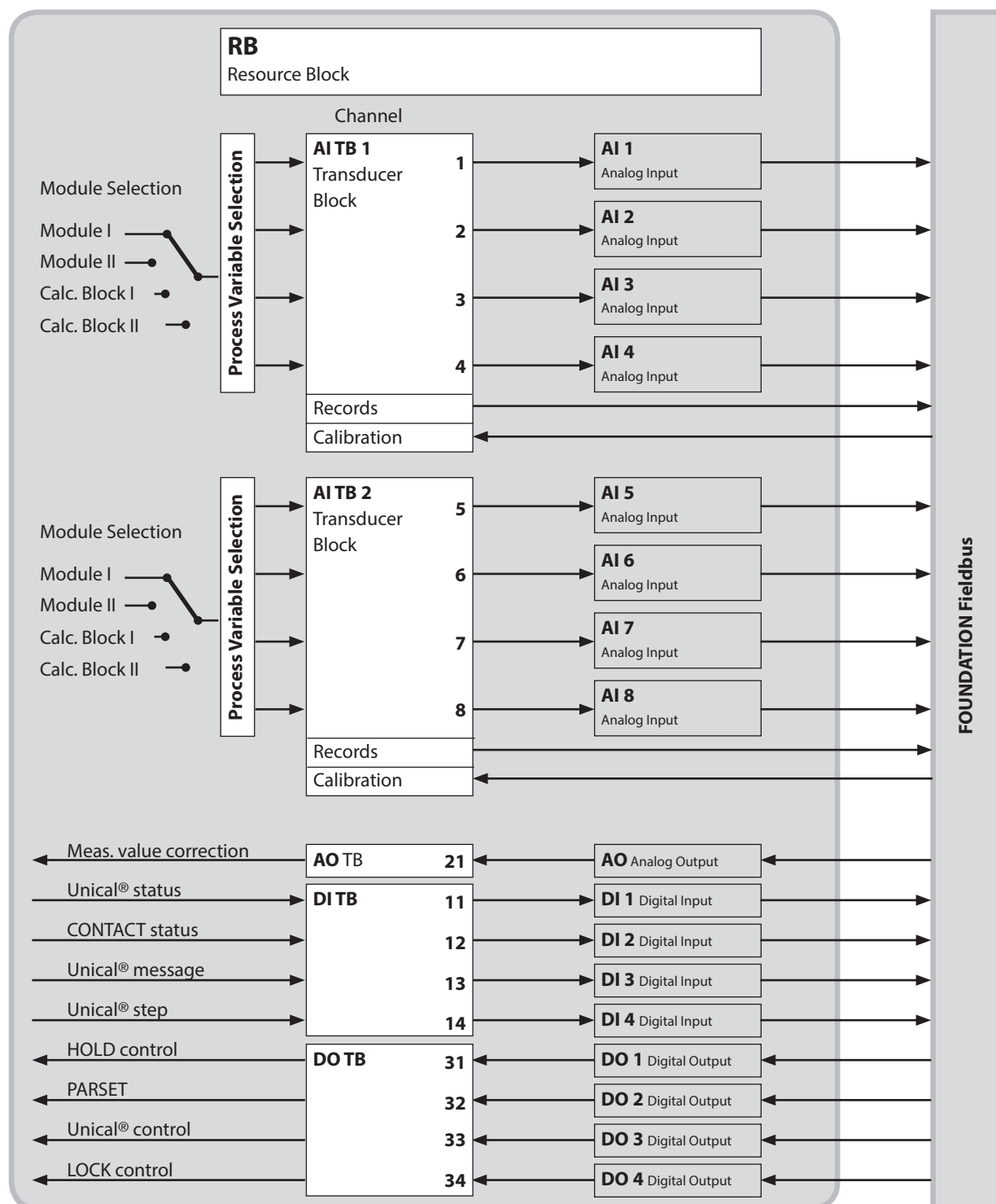
¹⁾ Galvanic isolation

Terminal Assignments COMFF 3400 X-085 module



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Communication Model



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