

CONDI 3400 (X)-051 Module Specifications

Condl input*)	For SE 655/SE 656 toroidal sensors (and others)		
	Measuring ranges	SE655/SE656:	0000 $\mu\text{S}/\text{cm}$... 2,000 mS/cm Resolution 1 $\mu\text{S}/\text{cm}$
	Concentration		0.0 ... 100.0 wt%
	Salinity		0.0 ... 45.0 g/kg (0 ... 35 °C)
	Response time (T_{90})		< 0.5 s
	Measurement error ¹⁾		< 0.5 % of measured value + 2 $\mu\text{S}/\text{cm}$
	Permissible cable length		Max. 20 m
Temperature input*)	Pt100 / Pt1000 / NTC 30 / NTC 100 $\text{k}\Omega^*$, 3-wire connection, adjustable		
	Measuring range	Pt100 / Pt1000: NTC 30 $\text{k}\Omega$	-50 ... 250 °C / -58 ... 482 °F -10 ... 150 °C / 14 ... 302 °F
	Resolution		0.1 °C/°F
	Measurement error ²⁾		0.2 % of measured value + 0.5 K
Temperature compensation*)	- None		
	- Linear characteristic 00.00 ... 19.99 %/K (adjustable reference temperature)		
	- NLF natural waters according to EN 27888 (reference temperature 25 °C/77 °F)		
Concentration determination*) (SW3400-009/FW4400-009)	HNO ₃	0 ... 30 wt%	-20 ... 50 °C / -4 ... 122 °F
		35 ... 96 wt%	-20 ... 50 °C / -4 ... 122 °F
	HCl	0 ... 18 wt%	-20 ... 50 °C / -4 ... 122 °F
		22 ... 39 wt%	-20 ... 50 °C / -4 ... 122 °F
	H ₂ SO ₄	0 ... 37 wt%	-17.8 ... 110 °C / -0.04 ... 230 °F
		28 ... 88 wt%	-17.8 ... 115.6 °C / -0.04 ... 240.08 °F
		89 ... 99 wt%	-17.8 ... 115.6 °C / -0.04 ... 240.08 °F
	NaOH	0 ... 24 wt%	0 ... 100 °C / 32 ... 212 °F
		15 ... 50 wt%	0 ... 100 °C / 32 ... 212 °F
	NaCl	0 ... 28 wt%	0 ... 100 °C / 32 ... 212 °F
H ₂ SO ₄ +SO ₃ (Oleum)	12 ... 45 wt%	0 ... 120 °C / 32 ... 248 °F	
Specifiable concentration table (5x5 values)			
Sensor monitoring*)	Sensocheck, monitoring of primary coil and wires for short circuits, and of the secondary coil for open circuits		
Sensoface	Provides information on the condition of the sensor		
Sensor adjustment*)	Operating modes:		
	- Automatic with NaCl or KCl solution		
	- Manual: Input of cell constant with simultaneous display of conductivity value and temperature		
	- Product calibration/vessel adjustment		
	- Zero point adjustment		
- Data entry of premeasured sensors			
	Permissible cell factor		0.000 ... 19.99 cm^{-1}
	Permissible transfer ratio		0.00 ... 199.9
Calibration record	Recording of: Cell factor, transfer ratio, zero point, calibration procedure with date and time		
Output curve*)	- Linear		

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	<ul style="list-style-type: none"> – Trilinear – Function – As desired via table 	
Explosion protection	See Ex Certificates and EU Declaration of Conformity or www.knick.de	
EMC	NAMUR NE 21 and EN 61326-1, EN 61326-2-3	
	Emitted interference Industrial applications ²⁾ (EN 55011 Group 1 Class A)	
	Immunity to interference Industrial applications	
Lightning protection	to EN 61000-4-5, Installation class 2	
Rated operating conditions	Ambient temperature	Safe area: -20 ... 55 °C / -4 ... 131 °F
		Ex: -20 ... 50 °C / -4 ... 122 °F
	Relative humidity:	5 ... 95 %
	Climatic class	3K5 according to EN 60721-3-3
	Location class	C1 according to EN 60654-1
	Transport / storage temperature	-20 ... 70 °C / -4 ... 158 °F
Housing	Module enclosure	PC/ABS blend
	Color	Black
	Degree of protection	IP 20
	Dimensions (mm)	118 x 91 x 21 W x L x H
	Terminals	Screw clamp connector, single and stranded wires up to 2.5 mm ²

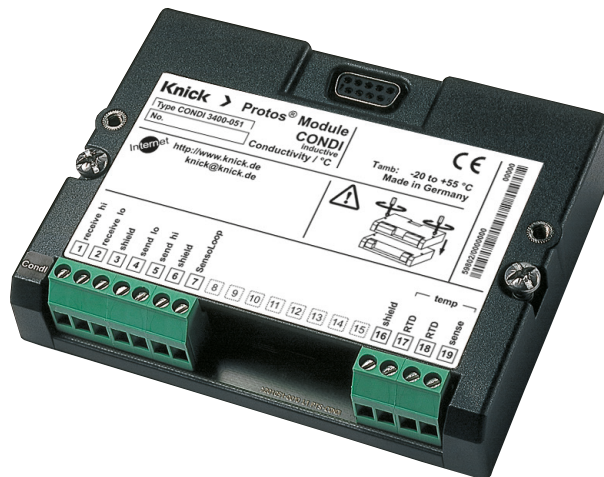
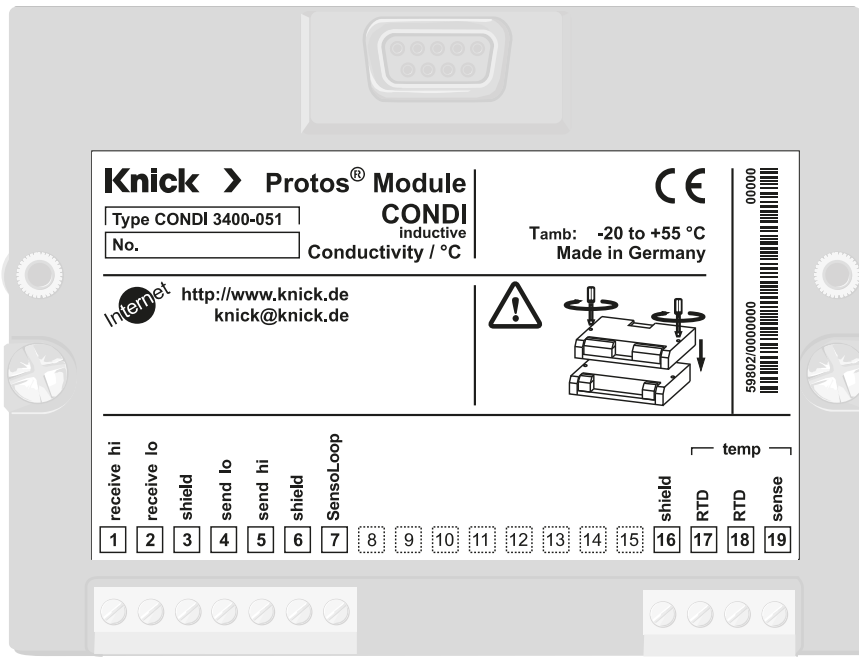
¹⁾ At rated operating conditions, ± 1 count

²⁾ At rated operating conditions, ± 1 count, for NTC > 100 °C/ 212 °F: 0.2 % of measured value + 1 K

³⁾ This equipment is not designed for domestic use, and is unable to guarantee adequate protection of the radio reception in such environments.

*) Adjustable

CONDI 3400 (X)-051 Module Terminal Assignments



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