

TYPE CERTIFICATE


TYPES TEMAX-3.2/B , TEMAX-3.3/B, TEMAX-3.4/B
(for 2, 3 and 4 Pt100Ω sensors respectively)
2-wire temperature transducers for base mounting

TECHNICAL SPECIFICATIONS

*	MEASURING RANGE	0...150 °C	
	TEMPERATURE SENSORS	Pt100Ω, 2 wire	
	LEAD COMPENSATION	Lead resistance: 0.35Ω, standard	
*	OUTPUT	4...20mA constant current.	
	MAX. OUTPUT	32mA on excessive input, e.g. open circuit or disconnected sensor.	
	RIPPLE ON OUTPUT	Max. 0.5% V_{pp} at $V_R = 2V_{pp}$ (10...400Hz)	
	OUTPUT NON-LINEARITY	Max. 0.1%	
*	ACCURACY	Class 1.0 (1%) $\pm 0.5^\circ\text{C}$ (-10... <u>15...30...55</u> °C)	IEC 688 and EN 60688
*	COMPARISON ACCURACY	0.5 °C	
*	AUX. VOLTAGE (V_S)	13...36V DC at 0.1V _{pp} ripple. 14...36V DC at 2V _{pp} ripple.	
	MAX. RIPPLE (V_R)	5V _{pp}	
	LOAD ON OUTPUT (R_L)	Depends on the aux. voltage V_S :	$\text{Max. } R_L = \frac{V_S (0.5 V_R + 13)}{0.02} \text{ OHMS}$

AUX. VOLTAGE INFLUENCE Max. 0.1% from 13...36V DC at 0.1V_{pp} ripple
RESPONSE TIME Ca. 1 sec. for 100% change of input,
Ca. 2.5 secs on initial energisation (for deviation 0.5%).

TYPE TEST SPECIFICATIONS

		<u>TESTED ACCORDING TO:</u>
INSULATION	500V DC, > 100 MΩ	GL, DNV and LRS
VIBRATION	3-30Hz: 100mm/sec 30-100Hz: 1.9 g	Class B, DNV Test 1, GL and LR
SHOCK	6 attempts with 15 g (in 3 directions)	IEC 68-2-27, Test: Ea.
CLIMATE	Class HSE	DIN 40040
PROTECTION	Case: IP65	IEC 529 and EN 60529
AMBIENT TEMPERATURE	-25... +70 °C (operating) -40... +70 °C (storage)	
TEMPERATURE DRIFT	Max. 0.2% per 10 °C.	
GALVANIC SEPARATION	2kV - 50Hz - 1 min. between mounting plate and input/output. 0.5kV-50Hz-1 min. between inner screen and input/output.	GL, DNV and LRS
EMC - IMMUNITY	Class PL4 Class 3 (27...1000MHz, 10V/m)	SS4361503 and IEC 255-4/76 IEC 801-3
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*) Tested on all units according to specifications.
Remaining specifications are tested regularly by test sampling.