

FEATURES	TXMINI-M12-485-MP
Sensor input	Pt100: 3-wire type, 0.8 mA excitation, α = 0.00384, according to NBR 13773. IEC 60751 (ITS-90).
Time between energizing and stabilizing the measurement	< 2.5 s. Accuracy is only guaranteed after 15 minutes.
Reference conditions	• Environment: 25 °C (77 °F) • Power supply: 24 V • Load: 250 Ω • Stabilization time: 15 minutes
Temperature influence	$\pm$ 0.2 % / 25 °C (77 °F)
Response time	Typically 1.6 s
Maximum permissible voltage at the sensor's input terminals	3 V
RTD current	800 μ A
Effect of RTD cable resistance	0.005 °C (32,009 °F) / Ω
Maximum admissible resistance of RTD cable	25 Ω
Power supply influence	0.006 % / V typically (maximum range percentage)
Output resolution	2 μ A
Power supply	8 to 35 Vdc
Maximum load (RL)	RL (max.) = (Vdc – 8) / 0.02 [Ω] Where: Vdc = Power supply in Volts (from 8 to 35 Vdc)
Operating temperature	-40 to 85 °C (-40 to 185 °F) (Electronics)
Environment humidity	0 to 90 % RH
Wire size	0.14 to 1.5 mm ²
Process thread type	1/2" BSP and 1/4" BSP
Recommended torque	0.8 Nm
No electrical isolation between input and output.	
Internal protection against reversal polarity of voltage supply.	