

LP-Series General Specifications Conforming with IEC 60688

Inputs	Current	: 1A, 5A (others on request)
	Voltage	: All ac systems voltages to 440V
	Frequency	: 50Hz, 60Hz (400Hz on request)
Analogue output	Load independent dc current or voltage	
5 .		: 0 to 10mA dc < 1500 <b>S</b> load
		: -10 to 0 to +10mA dc < 1500 <b>S</b> load
		0 to 20mA dc < 750 <b>S</b> load
		-20mA to 0 to $+20mA < 750$ s load
		: $4 \text{ to } 20\text{m} \text{ dc} < 750\text{ S}$ load
		$: 0 \text{ to } \pm 5 \text{ // } \text{ dc} > 2 \text{ kS}$ load
		$\cdot$ 5 to 0 to $\cdot$ 5V dc $\sim$ 2kS load
		-510000+50000 > 2KS 10000
		10  to  10  to  2 KS load
	Deepence time	$\therefore -10 \ 10 \ 10 \ 10 \ 10 \ 10 \ 10 \ 10 $
	Response time	: <250ms (0 - 99%) at tuli load (taster times on special request)
	Ripple	: <1% peak to peak (of full output span)
	Load influence	: <0.25% of full span for specific load range
Digital output	RS485 twisted pair cable up	to 1200m long
	Format	: Baud rate 9600 or 19200 no parity 8 bit
	Bus load	: up to 32 nodes on a bus
	Protocol	: MODBUS RTU with node addressing 1 to 32, others on request
	Data register	: Unsigned or signed word at location 40001
Pulse output	Relav	: 2A 110V <10W dc non inductive
	Opto-coupler	: NPN 30V 5mA
Quarland	Current input	· 2 v pominal continuous
Oventoau	Currentinput	· 20 x nominal for 2 seconds
	Voltaga	20 X HOHIMA TOF 5 SECONDS
	vollage	1.2 X nominal continuous
	C/C autout	: 1.5 X nominal for TU seconds
	S/C output	: continuous
	O/C output	: continuous, V <sub>o/c</sub> <30V
	Maximum output	: 2 x nominal output
Accuracy	Class	: 0.5 (0.5% of full output span)
,	Range	: 20 to 120% (LP-VS, LP-VSX3)
		: 0 to 120% (all others)
	Drift	1 < +0.5% over the range 0° to +23° to +60°C.
	2	· 0.1% per annum non cumulative
Influences affectin	a Accuracy -Watt and var tran	1.0.17 per annum non canadate
innucinees aneetin	Input voltage	$(\pm 10.25\%)$ (V = 20% to 100% to 120%)
	Input volidye	$(-\frac{1}{2})^{-1}$ (V <sub>in</sub> 00% (0.100% (0.120%))
		$\sim 1.0\%$ UISIOI IIOI I Ideloi 0 IO 0.2
	Interaction in elements	: <0.25%
	variation due to power factor	r: < <u>+</u> 0.25% (PF 0.5 - 1 - 0.5)
Auxiliary supply (specify on ordering)		: 24V, 110V, 230V or 240V ac <u>+</u> 20% 1.5VA
		: 24V or 110V dc <u>+</u> 20% 2W
	Other auxiliary supply voltag	jes made to order
Isolation	Galvanic isolation between i	nputs, output and auxiliary supply (where specified)
	Test voltage	: 4kV 50Hz ac for 1 minute
	Impulse	: 5kV 1.2/50F sec waveform
Tomporaturo	Operating	$\cdot 0^{\circ}$ C to $\cdot 22^{\circ}$ C to $\cdot 60^{\circ}$ C
remperature	Storado	$25^{\circ}$ C to $170^{\circ}$ C long torm
	Sillaye	$55^{\circ}$ to $95^{\circ}$ chart form

