

THRESHOLD FOR ANALOG SIGNALS WITH RELAY OUTPUT

Z113S	:	1 9	SET	-P(DINT	
				-	- · · · -	

Z113D : 2 SET-POINT

Z113T : 3 SET-POINT

GENERAL FEATURES

Programmable analog input via DIP-switch for current and voltage signals. Stabilized power supply for transducers 2 wires tecnique with protection against short-circuit.

Alarms set-point regulation, regulation also for working delay and hysteresis. Indications on the front for presence of power supply and overflow for thresholds. Test-point to control set-points.

Selection by DIP-switch for the type of alarm (min or max) for each of set-points and the state of relays (normally powered or normally not powered). Output with relays.

3 points galvanic separation, 1500 Vac between power supply and input and outputs. Box in auto extinguishing polycarbonate, 1 DIN module, back for rail 35 mm (DIN 46277).



TECHNICAL FEATURES

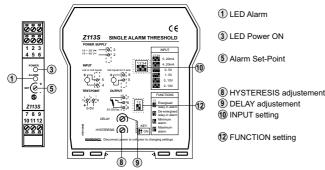
Power:	10 40 V/da 10 28 V/aa 50 60Hz max 2 5W/
	19-40 Vdc, 19-28 Vac 50-60Hz, max 2.5W.
Input:	 Current 0-20 mA or 4-20 mA both active and passive wiring, input impedance 100 ohm, sensor's stabilized power 20 Vdc 20 mA. Voltage 0-5 Vdc, 1-5 Vdc, 0-10 Vdc and 2-10 Vdc, input impedance 1 Mohm.
Adjustments:	 Set-point for the alarms between 1 % and 100 % of the signal to be controlled. Working delay between 0,3 s and 30 s. Hysteresis between 2 % and 15 % for full-scale.
Output:	Relays, 1 A 30 Vdc / 5 A 250 Vac maximum (resistive load). Z113S 1 SPDT contacts, Z113D 2 SPST contacts, Z113T 3 SPST contacts.
Errors referred to input measure's field:	Thermic coefficient:Linearity error:0, 02%/°C0,05%
Protection Input / power supply:	Against pulse overvoltages 400W/ms.
Environemenytal conditions:	Temperature: 050°C, Humidity min:30%, max 90% at 40°C not condensating (see section <i>Installatione</i>).
Dimensions / Weight:	17,5 x 100 x 112 mm / 200 g approx.
Norms:	Device complies the following norms: EN50081-2 (electromagnetic emission, industrial environement) EN50082-2 (electromagnetic immunity, industrial environement) EN61010-1 (safety)

info@logicbus.com.mx

www.logicbus.com.mx

Alcalde #1822 Col. Miraflores C.P. 44270 Guadalajara, Jal. Mexico MX 01 (33) 3854-5975 y 3823-4349 USA 001 (858)-869-5401 (Chula Vista, CA. Office)

Z113S - PROGRAMMATION



Programmation for INPUT SETTING and for FUNCTION SETTING must be done when unit is not powered.

PROGRAMMATION FOR "INPUT SETTING" BY DIP-SWITCHES "INPUT" :

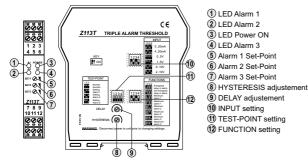
0-20 mA 4-20 mA 0-5 V 1-5 V 0-10 V 2-

PROGRAMMATION FOR "FUNCTION SETTING" OF THE THRESHOLD BY DIP-SWITCHES "FUNCTIONS"

12	12	12	12
Relay ENERGISED in alarm	Relay DE-ENERGISED in alarm	Alarm MINIMUM	Alarm MAXIMUM

Red LED starts instantaneously when exceeded SET-POINT and starts blinking after the operating time for the relay

Z113T - PROGRAMMATION

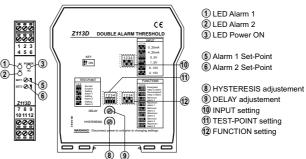


Programmation for INPUT SETTING and for FUNCTION SETTING must be done when unit is not powered

ļ	PROGRAMMATION FOR "INPUT SETTING" BY DIP-SWITCHES "INPUT" :							
	1234 0 - 20 mA	1234 1234 1-20 mA 0 - 5 V		1234 - 5 V		234 10 V	Ó	34 10 V
	PROGRAMMATION FOR "FUNCTION SETTING" OF THE THRESHOLD BY DIP- SWITCHES "FUNCTIONS" :							
	Relay ENERGISED in alarm	Relay DE-ENERGISED in alarm	ALAR MIN	M 1 MAX	ALAR MIN	M 2 MAX	ALAR MIN	M 3 MAX
	1234	1234	1234	1234	1234	1234	1234	1234

Red LED starts instantaneously when exceeded SET-POINT and starts blinking after the operating time for the relay

Z113D - PROGRAMMATION



Programmation for INPUT SETTING and for FUNCTION SETTING must be done when unit is not powered

PROGRAMMATION FOR "INPUT SETTING" BY DIP-SWITCHES "INPUT" :								
1234	1234	1234	1234	1234	1234			
0 - 20 mA	4 - 20 mA	0 - 5 V	1 - 5 V	0 - 10 V	2 - 10 V			

PROGRAMMATION FOR "FUNCTION SETTING" OF THE THRESHOLD BY DIP-SWITCHES "FUNCTIONS" ·

	Relay ENERGISED	Relay DE-ENERGISED	ALAR		ALAR	
	in alarm	in alarm	MIN	MAX	MIN	MAX
	1234		1234	1234	1234	1234

FUNCTIONING FOR RED LED "ALARM

Red LED "ALARM" starts istantaneusly when exceeded SET-POINT and starts blinking after the operating time for the relay

POWER SUPPLY





Upper limits have not to be exceeded, on the contrary modules will be damaged. It is necessary to protect power supply source from possible module's damages by a fuse correctly calculated.



INPUT

mA Input mA Input (2 wires) **-∕0**¦5 **-0**6 mA **0**¦4 **0** 5

V	Input
+	-0
V	
	<u></u>
	(<u>•</u>)

Vext **TEST-POINT**

mA

-10-



OUTPUTS

Maximun load for relays is 5 A 250 Vac (resistive load) ...

To drive inductive loads (as electrovalves coils, remote control switches, etc.) it is necessary to use filters dedicated to the extra voltage spike due to the off and on of those loads that in other way drastically reduce relay contact electrical life.





Z113D

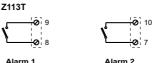


0] 9





Alarm 2





info@logicbus.com.mx

www.logicbus.com.mx

Alcalde #1822 Col. Miraflores C.P. 44270 Guadalajara, Jal. Mexico MX 01 (33) 3854-5975 y 3823-4349 USA 001 (858)-869-5401 (Chula Vista, CA. Office)