

Process controller with Modbus Master/Slave
1/8 DIN - 48 x 96
X5 line

Quick Guide • ISTR-FX5ENG02

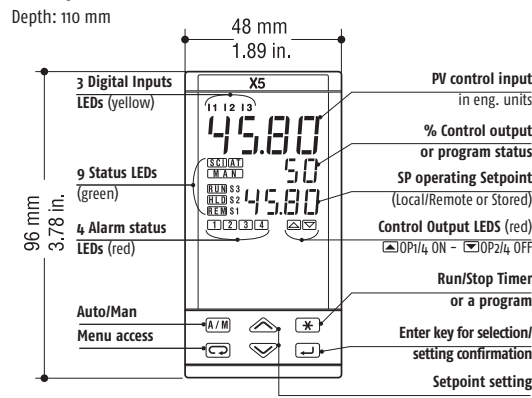


viale Indipendenza 56, 27029 - Vigevano (PV)
 Tel.: +39 0381 698 71, Fax: +39 0381 698 730
 internet site: www.ascontecnologic.com
 E-mail: sales@ascontecnologic.com

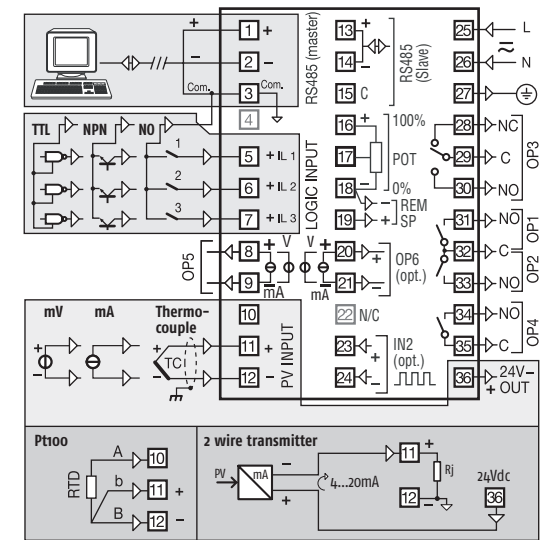
Declaration of Conformity and Manual retrieval

X5 is panel mounting, Class II instrument. It has been designed with compliance to the European Directives.
 All information about the controller use can be found in the User Manual: **MIU_X5_EN.pdf**.
 The Declaration of Conformity and the manual of the controller can be downloaded (free of charge) from the web-site:
www.ascontecnologic.com
 Once connected to the web-site, search: **X5**
 then click on **X5** from the result list.
 In the lower part of the product page (in any language) is present the download area with links to the documents available for the controller (in the available languages).

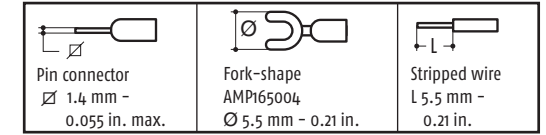
Description and dimensions



Electrical connections



Terminals



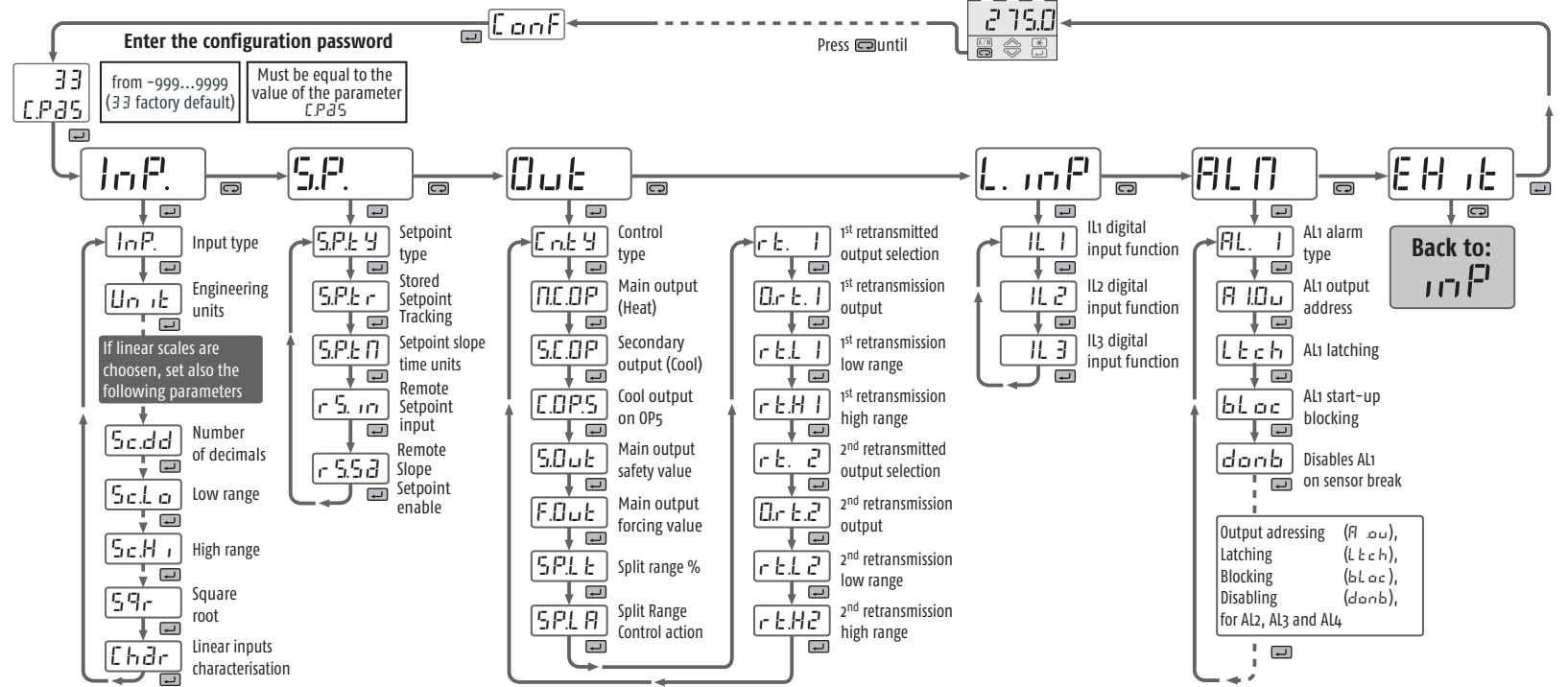
Model Code

The product code indicates the specific hardware configuration of the instrument, that can be modified by specialized engineers only.

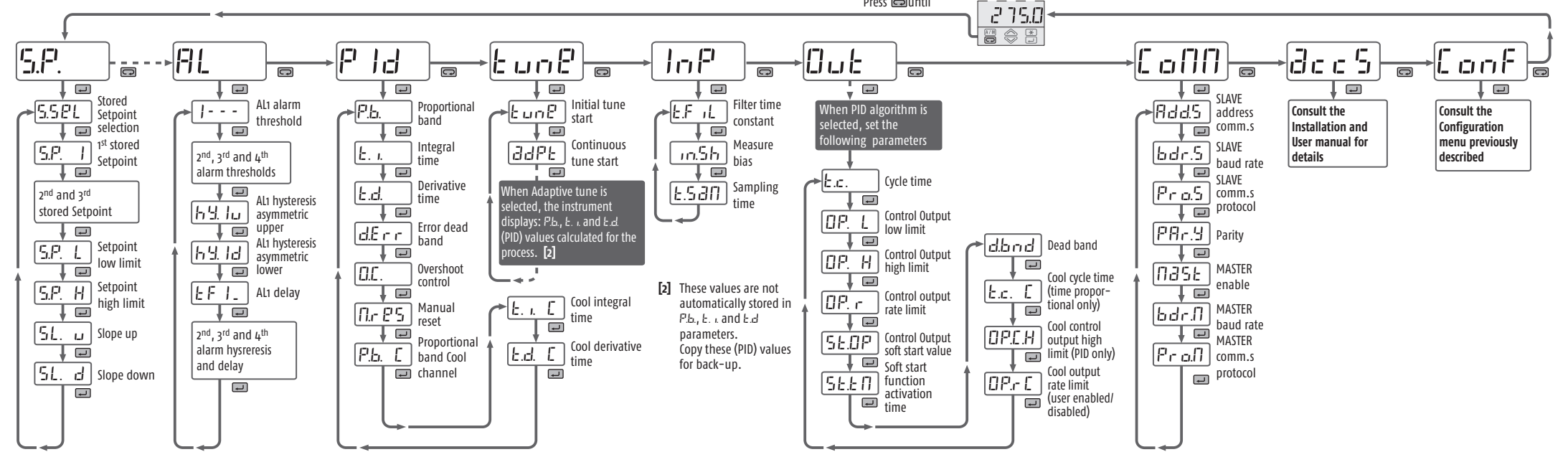
Line	Basic	Accessories
Model:	X5 A1CD	E900
Line	X	5
Power supply	A	
100...240Vac (-15...+10%)	3	
24Vac (-25...+12%) or 24Vdc (-15...+25%)	5	
Serial Communications	C	
None	0	
Mathematical package (MP)	1	
RS485 Modbus/Jbus + MP	5	
RS485 Modbus/Jbus SLAVE + MASTER + MP	6	
Options	D	
None	0	
Frequency input + OP6	6	
Setpoint Programmer [1]	E	
Not fitted	0	
4 programs with 16 segments	4	

[1] Not available with split range control mode.

Configuration menu



Parameterisation menu



Parameter list

The parameters pointed out with grey background are those necessary to configure the options and are NOT shown in the menus. All the parameters are fully described and explained in the user manual of the controller.

Code	Parameter Name	Value	
		Default	User
InP	Input type selection	0	10
Unit	Engineering units	NONE	
Scdd	Number of decimals (0...3)	0	
ScLo	Low range	0	
ScHi	High range	9999	
Sqr	Square root (0 = OFF, 1 = ON)	NO	
Char	Linear input characterization	NO	
SPtY	Setpoint type	LOC	
SPtR	Stored Setpoint tracking	NO	
SPtN	Time units and Setpoint slope	P.SEC	
rS.in	Remote Setpoint input	4 - 20	
rS.S	Remote Setpoint Slope enable	NO	
ContY	Control type	PID	
NCOP	Main output (Heat)	OFF	
SCOP	Secondary output (Cool)	OFF	
COPS	Cool output on OP5 (Heat/Cool only)	NO	
SOut	Main output safety value	OFF	
FOut	Main output forcing value	OFF	
SPL%	Split range % (split range only)	50	
SPLA	Split Range Control action	dir	
rE..	n th retransmitted output selection	none	

Code	Parameter Name	Value	
		Default	User
OrE..	n th retransmission output	4-20	
rE.L	n th retransmission low range	0	
rE.H	n th retransmission high range	9999	
IL..	ILn digital input function	OFF	
AL..	ALn alarm type	OFF	
AL.ad	ALn addressing	OP1	
AL.lch	ALn latching	no	
AL.bloc	ALn start-up disabling	no	
AL.donb	Disables ALn on sensor break	no	

Code	Parameter Name	Value	
		Default	User
SSeL	Setpoint selection	NONE	
SP..	n th stored Setpoint	0	
SP.L	Setpoint low limit	PV.LO	
SP.H	Setpoint high limit	PV.HI	
SL.u	Setpoint ramp up	OFF	
SL.d	Setpoint ramp down	OFF	
rS.SL	Remote setpoint slope enable	OFF	
rE.o	Ratio remote Setpoint	1.00	
b.iS	Remote Setpoint Bias	0	

Code	Parameter Name	Value	
		Default	User
OP.h	Output Hysteresis	1	
t.c.	Cycle time	10.0	
OP.L	Control output low limit	0.0	
OP.H	Control output high limit	100.0	
OP.r	Control output maximum speed	OFF	
SStP	Soft start output high value	OFF	
SStN	Soft start time	10	
trav	Servomotor travel time	60	
step	Output minimum step Servomotor	0.5	
dbnd	Heat/Cool Dead band	0.5	
t.c.c	Cool cycle time	10.0	
OP.C	Cool output maximum value	100.0	
OP.r.c	Cool output maximum speed	OFF	
Addr	Communication SLAVE address	1	
bdr.S	SLAVE Baud rate	9600	
Pr.a	SLAVE Communication protocol	JBUS	
Par.y	Parity	NONE	
MaSt	Enable MASTER	NO	
bdr.M	MASTER Baud rate	9600	
Pr.a.M	MASTER Communication protocol	JBUS	