

**Process controller with Modbus Master/Slave**  
**1/4 DIN - 96 x 96**  
**Q5 line**

Quick Guide • ISTR-FQ5ENG02

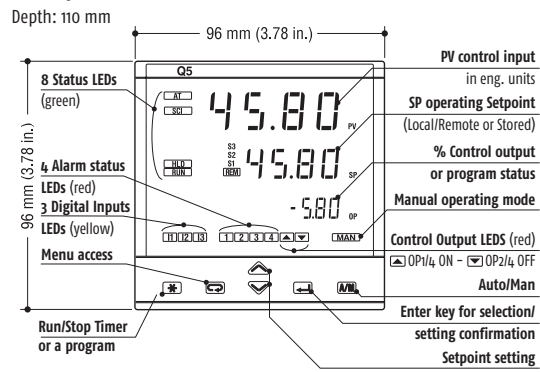


viale Indipendenza 56, 27029 - Vigevano (PV)  
 Tel.: +39 0381 698 71, Fax: +39 0381 698 730  
 internet site: www.ascontecnologic.com  
 E-mail: sales@ascontecnologic.com

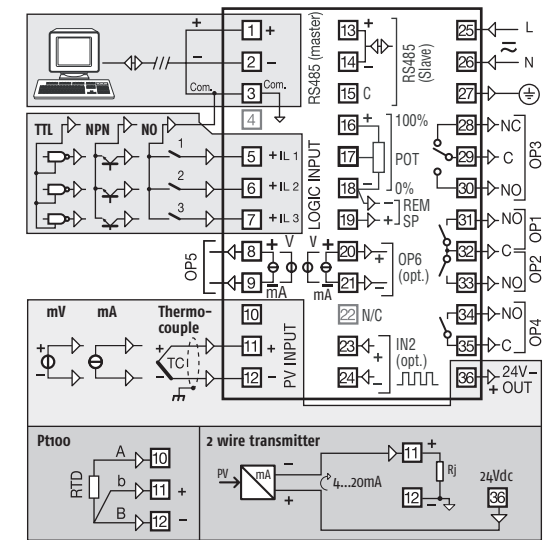
**Declaration of Conformity and Manual retrieval**

Q5 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\_Q5\_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](http://www.ascontecnologic.com)  
 Once connected to the web-site, search: Q5  
 then click on Q5 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).

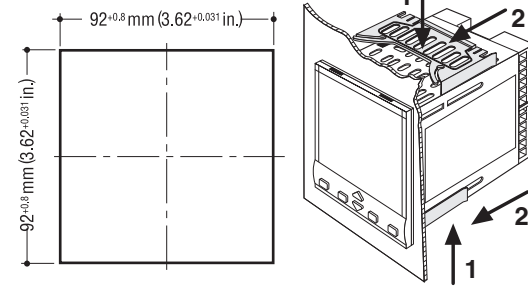
**Description and dimensions**



**Electrical connections**



**Panel cut out and mounting**



**Warning!**

- Whenever a failure or a malfunction of the device may cause dangerous situations for persons, things or animals, please remember that the plant must be equipped with additional devices which will guarantee safety.  
 - We warrant that the products will be free from defects in material and workmanship for 18 months from the date of delivery. Products and components that are subject to wear due to conditions of use, service life and misuse are not covered by this warranty.

**Model Code**

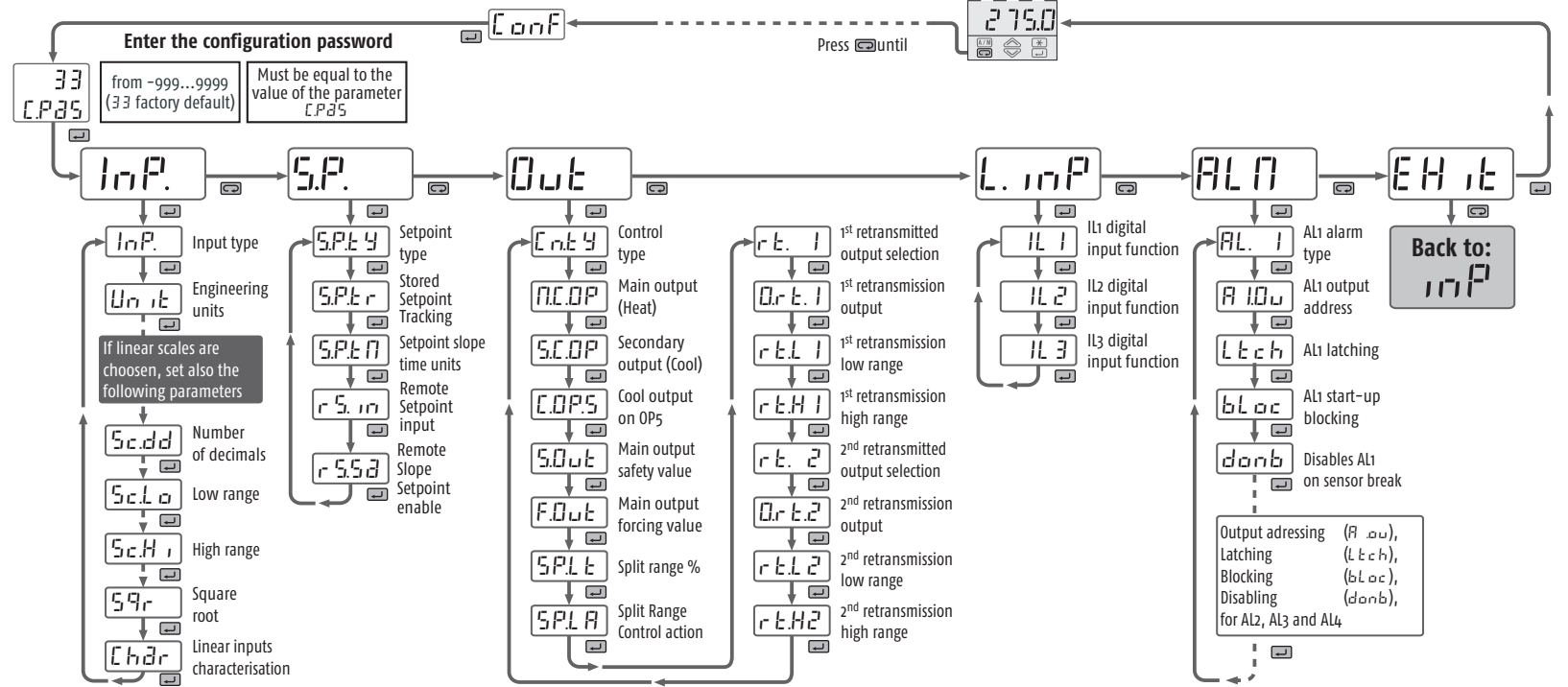
The product code indicates the specific hardware configuration of the instrument, that can be modified by specialized engineers only.

Line Basic Accessories  
 Model: Q5 ABCD-E900

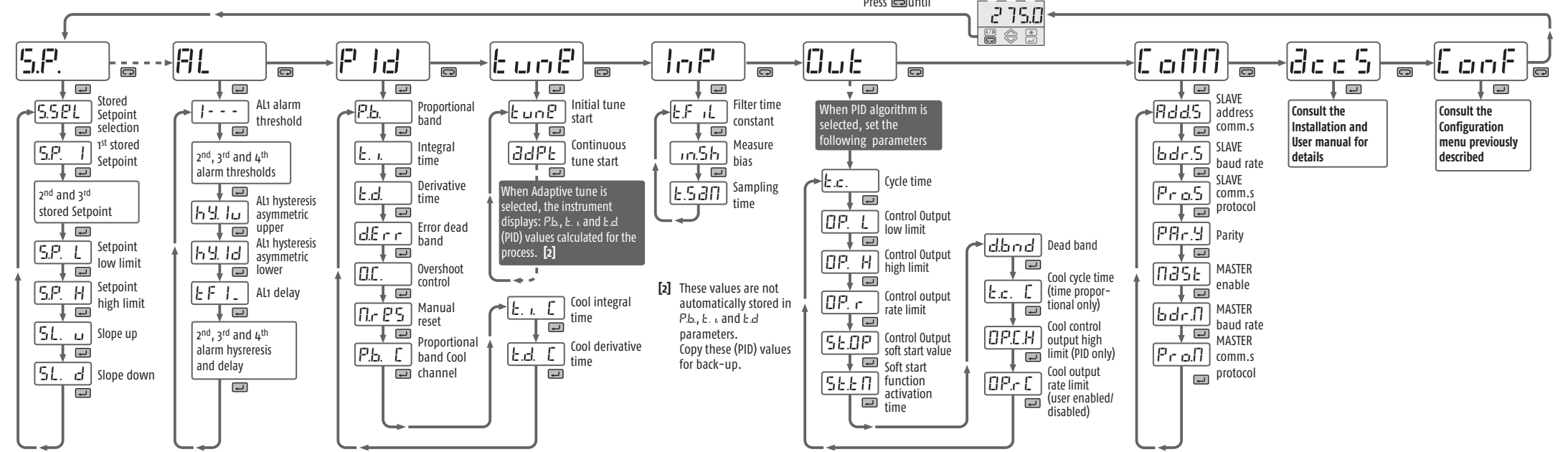
Line	Q	5
<b>Power supply</b>	<b>A</b>	
100...240Vac (-15...+10%)	3	
24Vdc (-25...+12%) or 24Vdc (-15...+25%)	5	
<b>Serial Communications</b>	<b>C</b>	
None	0	
Mathematical package (MP)	1	
RS485 Modbus/Jbus + MP	5	
RS485 Modbus/Jbus + SLAVE + MASTER + MP	6	
<b>Options</b>	<b>D</b>	
None	0	
Frequency input + OP6	6	
<b>Setpoint Programmer [1]</b>	<b>E</b>	
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	
Sc.dd	Number of decimals (0...3)	0	
Sc.Lo	Low range	0	
Sc.Hi	High range	9999	
Sqr	Square root (0 = OFF, 1 = ON)	NO	
Char	Linear input characterization	NO	
SP.ty	Setpoint type	LOC	
SP.tr	Stored Setpoint tracking	NO	
SP.tn	Time units and Setpoint slope	P.SEC	
r.S.in	Remote Setpoint input	4...20	
Cont.y	Control type	PID	
NC.OP	Main output (Heat)	OFF	
SC.OP	Secondary output (Cool)	OFF	
C.OP.S	Cool output on OP5 (Heat/Cool only)	NO	
S.O.vt	Main output safety value	OFF	
F.O.vt	Main output forcing value	OFF	
SPL.t	Split range % (split range only)	50	
SPL.A	Split Range Control action	dir	
r.t.	nth retransmitted output selection	none	

Code	Parameter Name	Value	
		Default	User
Or.t.	nth retransmission output	4...20	
r.t.L	nth retransmission low range	0	
r.t.H	nth retransmission high range	9999	
IL.	ILn digital input function	OFF	
AL.	ALn alarm type	OFF	
AL.Du	ALn addressing	OP1	
L.t.ch	ALn latching	no	
bLoc	ALn start-up disabling	no	
donb	Disables ALn on sensor break	no	

Code	Parameter Name	Value	
		Default	User
SSEL	Setpoint selection	NONE	
SP.	nth 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	
r.SSL	Remote setpoint slope enable	OFF	
r.t.o	Ratio remote Setpoint	1.00	
b.t.S	Remote Setpoint Bias	0	

Code	Parameter Name	Value	
		Default	User
tunP	Initial tune start		
adPt	Continuous tune start		
EF.L	Filter time constant		
in.Sh	Measure bias		
t.S.dn	Sampling time		
t.c.	Cycle time		
OP.L	Control Output low limit		
OP.H	Control Output high limit		
OP.r	Control output rate limit		
St.OP	Control Output soft start value		
St.tn	Soft start function activation time		
dbnd	Dead band		
t.c.C	Cool cycle time (time proportional only)		
OP.t.H	Cool control output high limit (PID only)		
OP.r.C	Cool output rate limit (user enabled/disabled)		

Code	Parameter Name	Value	
		Default	User
t.S.dn	Sampling time	0.1	
OP.Hy	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	
St.OP	Soft start output high value	OFF	
St.tn	Soft start time	10	
tr.vt	Servomotor travel time	60	
tr.vt	Output minimum step Servomotor	0.5	
dbnd	Heat/Cool Dead band	0.5	
t.c.C	Cool cycle time	10.0	
OP.t.H	Cool output maximum value	100.0	
OP.r.C	Cool output maximum speed	OFF	
AddrS	Communication SLAVE address	1	
bdr.S	SLAVE Baud rate	9600	
Pr.a.S	SLAVE Communication protocol	JBUS	
Par.y	Parity	NONE	
MaSE	Enable MASTER	NO	
bdr.M	MASTER Baud rate	9600	
Pr.a.M	MASTER Communication protocol	JBUS	