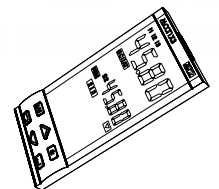
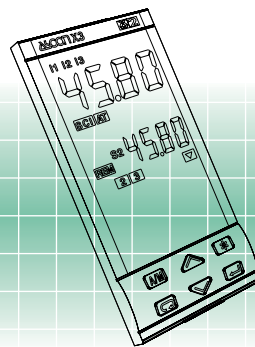
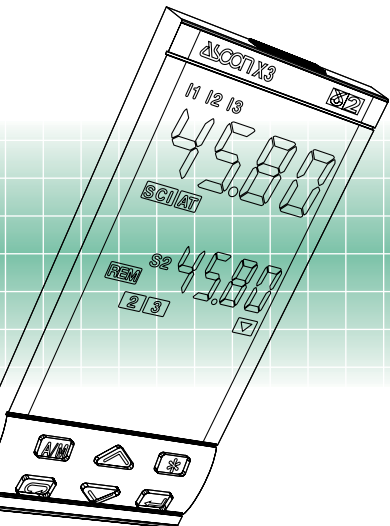


# Double action controller with analogue output 1/8 DIN - 48 x 96 mm gammadue® series X3 line

## Analogue control within everyone's reach

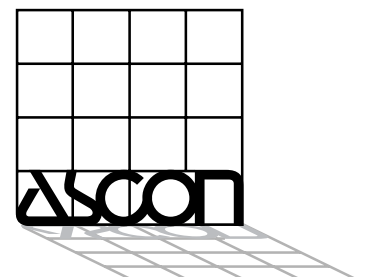
Including Auto/Man selection  
and digital inputs for external  
activation of:

- Stored Setpoints
  - Timer function
  - Setpoint programmable profile
- the gammadue® X3 line  
is simple, yet is suitable to satisfy  
almost all control needs:
- time proportioning
  - analogue
  - single or double action
  - valve drive



E

ISO 9001 Certified





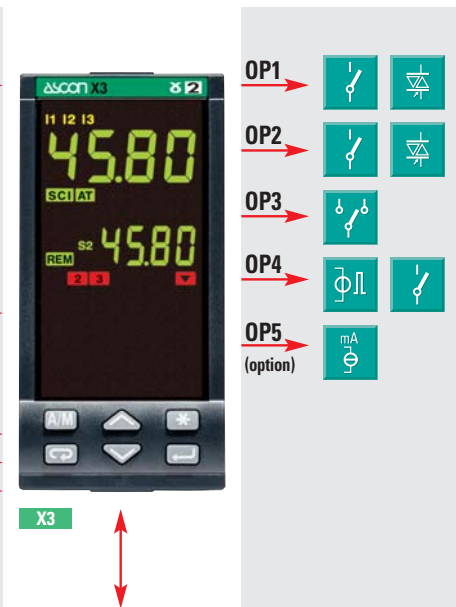
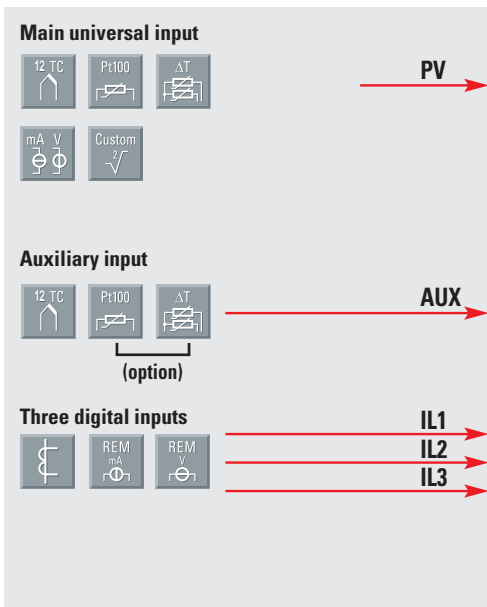
# gammadue®

the right solution to your needs

Your needs	Our solutions
Heaters failure	Heater break alarm with current transformer
Use of different actuators	Analogue output, heat/cool (linear, water, oil), valve control output
Easy replacement and quick start-up	Configuration by simple to use codes
Correct tuning for any condition	Automatic selection between two different tuning methods
Alarm signalling	Absolute, band and deviation alarms, Latching/Blocking
Interfacing with other devices	Serial communications at 9600 baud Modbus/Jbus protocol, analogue retransmission output, Remote Setpoint and 3 digital inputs
Frequent Setpoint change	Two stored Setpoints selected by keypad, serial communications or digital inputs
Quick learning	Every model has the same operating method
Ergonomic compatibility with other devices	Two colours: beige or darkgrey front panels
Environmental protection	IP65 front panel protection (indoor, dust and water protection)
Easy to use	Ergonomic keypad, clear and comprehensive display
Noise immunity	Electromagnetic compatibility
Universal input signals, linear as well as non-linear	Configurable input (TC, RTD, mA, Volt and ΔT, infrared sensor, "custom" linearisation)
Costs reduction	Built-in Timer and Start-up functions
Reliability and safety	CE compatibility, ASCON is ISO 9001 certified, 3 years warranty
Technical support	Technical application assistance from ASCON sales and after sales service

## Resources

## Operating mode



	Control	Alarms			Retransmission
		OP1	OP2	OP3	PV/SP
1	Single action	OP1		OP2 OP3	OP5
2		OP4		OP1 OP2 OP3	OP5
3		OP5		OP1 OP2 OP3	
4	Double action	OP1 OP2		OP3	OP5
5		OP1 OP4		OP2 OP3	OP5
6		OP4 OP2	OP1	OP3	OP5
7		OP1 OP5		OP2 OP3	
8		OP5 OP2	OP1	OP3	
9		OP5 OP4	OP1 OP2	OP3	
10		Valve (option)	OP1 OP2		OP3

**Setpoint**

LOC   2 MEM   REM   1x8s

**Modbus RS485**  
Parameterisation  
Supervision  
(option)

**Fuzzy tuning with automatic selection**

One shot Auto tuning   One shot Natural Frequency

**IL1, IL2 or IL3 connected functions**

MEM   REM   RUN   HOLD PV   TIMER   START UP   TIMER