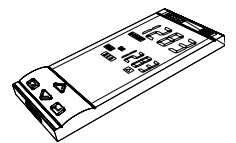
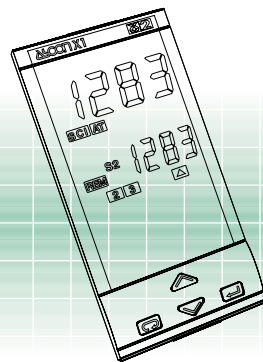
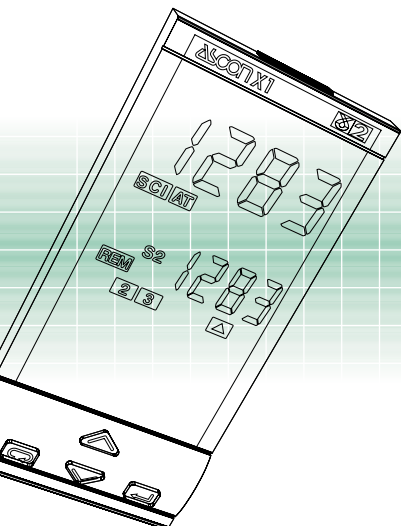


# Heat-Cool temperature controller 1/8 DIN - 48 x 96 mm gamma**due**<sup>®</sup> series X1 line

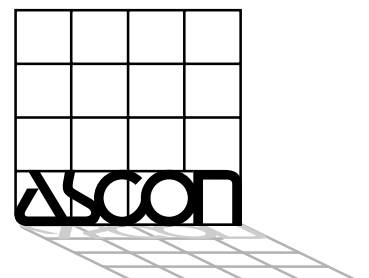
## Cost effective solutions

Ideal for Heat/Cool control, with the capability to check the load current by current transformer.  
Three relay outputs (one SPDT) and an analogue retransmission output, powerful Timer and Start-up special functions.  
The X1 line, the simplest of the gamma**due**<sup>®</sup> 48x96 series, is very cost-effective instrument allowing you to buy only what you really need to satisfy your requirements.



E

ISO 9001 Certified



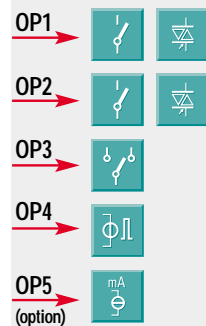
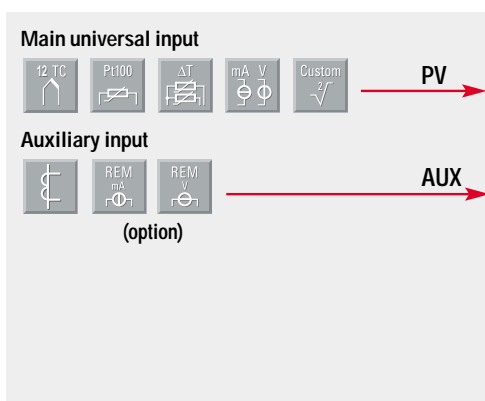


# gammadue<sup>®</sup>

the right solution to your needs

Your needs	Our solutions
Heaters failure	Heater break alarm with current transformer
Both heating and cooling functions with different medium	Heat/Cool (linear, water, oil) double action
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
Frequent Setpoint change	Two stored Setpoints selected by keypad or serial communications
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 $\Delta T$ , 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
		PV/SP			
1	Single action	OP1		OP2 OP3	OP5
2		OP4		OP1 OP2 OP3	OP5
3		OP1 OP2			OP3 OP5
4	Double action	OP1 OP4		OP2 OP3	OP5
5		OP4 OP2	OP1		OP3 OP5

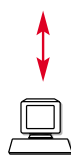
### Setpoint



### Special functions (option)



X1



**Modbus RS485**  
Parameterisation  
Supervision  
(option)

### Fuzzy tuning with automatic selection

