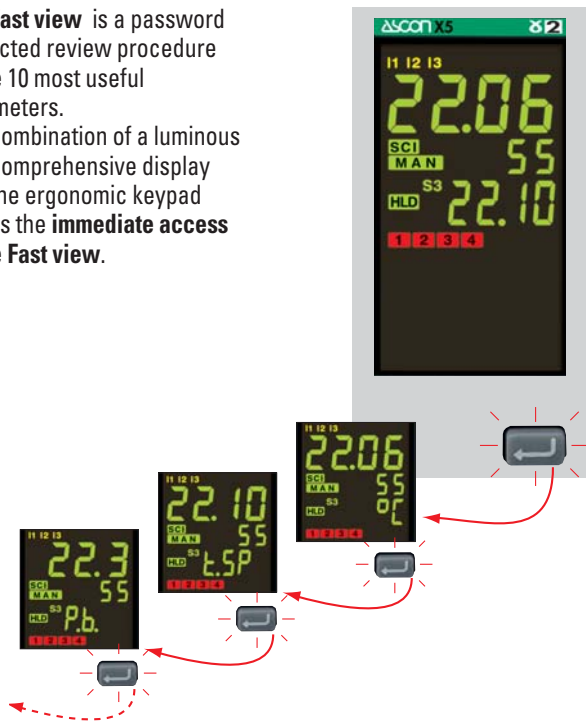


## Fast view

The **Fast view** is a password protected review procedure of the 10 most useful parameters.

The combination of a luminous and comprehensive display and the ergonomic keypad allows the **immediate access** to the **Fast view**.



## PROFIBUS DP Slave

Industrial standard for peripheral devices connection to a machine in a plant.

The protocol installed in this controller, offers the following advantages against the standard normally supplied by other suppliers:

- Communications baudrate **Up to 12 Mb/s with electric isolation**

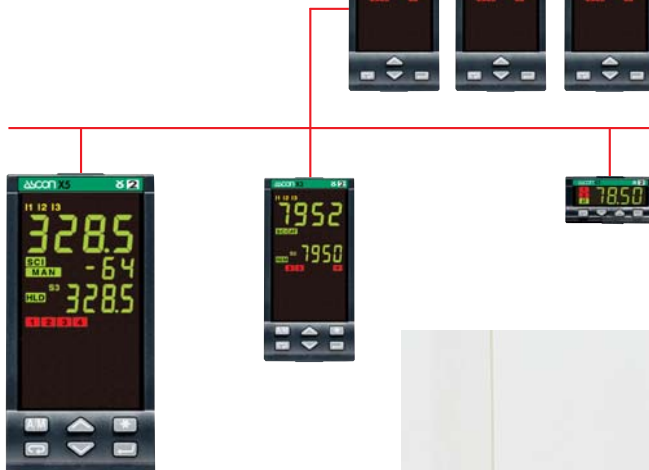
- The list of data transfer (profile file) is **user configurable**. It can be set by means the **gammaDue®** configuration software.



## Modbus Master

**Modbus serial** communications allows a controller to exchange informations with other devices, **gammaDue®** series or others with Modbus Slave serial communications (PLC). For instance it is possible to read the acquired value from a **gammaDue®** C1 indicator with alarms and send this value as remote Setpoint to a **gammaDue®** X3 controller; or the **gammaDue®** X5 controller can send the Setpoint profile of the running program to many X1 controllers without Setpoint programmer function. An X5 controller can realize a

simple network for the low level data management. The X5 can also reduce the work of the SCADA and grant the exchange of data in case of its failure.



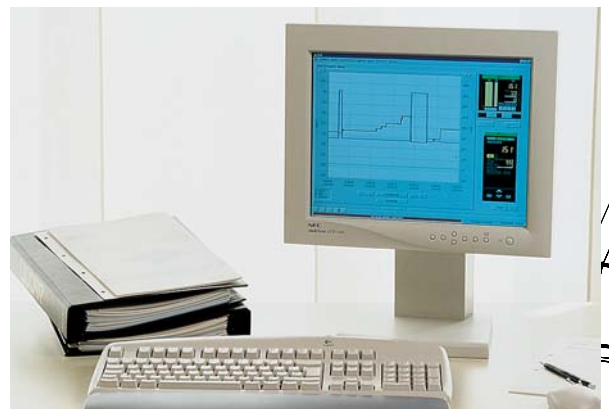
The **mathematical package** is able to process any information

there is in the controller by using a simple set of mathematical operations. For instance it can compare two values by selecting higher or lower, to do the sum or the ratio and so on. **Together with Modbus Master**, it becomes a very powerful information handler;

it can, for example, send to different controllers the same Setpoint profile with different values for every controller.

## AutoLink

Self-configuring supervision software. Major features include monitoring and control of the connected devices, the visualisation by means of instrument faceplates, trend and mimic pages, data archiving as well as report generation. A self-configuring tool automatically polls the connected devices and build up the application software, reducing the start-up costs.





# gammadue®

the right solution to your needs

Your needs	Our solutions
High speed data acquisition and signal management	Sampling time: 100 ms measure update time: 50 ms
Use of different actuators	Two analogue outputs, heat/cool (linear, water, oil), valve control output with potentiometer position feedback
Process with time variable characteristic	Two initial and one continuous calculations of the right control parameters
Alarm signalling and diagnostic	Absolute, band and deviation alarm, Latching/Blocking, loop break alarm
Interfacing with other devices	Serial communications at 19,200 baud Modbus/Jbus Master and Slave, PROFIBUS DP at 12 Mbaud, two retransmission outputs, Remote Setpoint input, three digital inputs
Temperature profile	4 program with 16 segments, 3 stored Setpoints
Safe and reproducible configuration and parameter settings	Memory chip for data transfer and storing, configuration and parameterisation software
Environmental protection	IP65 front panel protection (indoor, dust and water protection)
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, frequency input up to 20 kHz)
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

**Resources**

**Memory Chip**  
Data Copy/Data Store (option)

**Main universal input (option)**  
12 TC, Pt100, ΔT, mA V, Custom, Hz, PV

**Auxiliary input**  
REM mA, REM V, POT. → AUX

**Three digital inputs**  
→ IL1, IL2, IL3

**Setpoint**  
LOC, 3 MEM, REM, 4x16s

**IL1, IL2 or IL3 connected functions**  
MEM, REM, RUN, HOLD PV, SP SCORE

**Modbus RS485 Slave**  
Parameterisation, Supervision (option)

**Operating mode**

	Control	Alarms	Retransmission
			PV/SP
1	Single action	OP1	OP2 OP3 OP4 OP5 OP6
2		OP5	OP1 OP2 OP3 OP4 OP6
3	Double action	OP1 OP2	OP3 OP4 OP5 OP6
4		OP1 OP5	OP2 OP3 OP4 OP6
5		OP5 OP2	OP1 OP3 OP4 OP6
6		OP5 OP6	OP1 OP2 OP3 OP4
7	Valve	OP1 OP2	OP3 OP4 OP5 OP6

**Fuzzy tuning with automatic selection**  
One shot Auto tuning, One shot Natural Frequency

**Continuous tuning**  
Adaptive

**PROFIBUS**  
Process Field Bus (option)

**Modbus RS485 Master**  
Link to other instruments (option)