

ASCONcorporation

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everything under control

ASCONcorporation

quick reference guide

Trained Stocking Distributors:

company name

region

Automatic Controls

Michigan

50220 Dennis Court
Wixom, Michigan 48393
248-624-1990
www.autoctrls.com

Beacon Industrial Group

North and South Carolina, Florida,
Tennessee, Georgia, Alabama,
Mississippi, and Virginia

1925 West Iness Street
Salisbury, NC 28144
704-642-1880

Schlemmer Associates

Ohio, Indiana, Kentucky, West
Virginia, Western Pennsylvania

800 Compton Road, Unit 35
Cincinnati, Ohio 45231
513-522-8340
www.schlemmerassociates.com

All other regions please contact

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featured in this guide:

 **gamma**® Panel Mount
Controllers

 **ACSTATION**® Multi-Loop
Programmable Controllers

 **delta**® DIN Rail Mount
Blind Controllers

 **SW** Configuration and SCADA
Software

 **sigma**® Remote I/O
Modules and PAC

 **ACCS** Components and
Accessories



AC STATION ac station

Ascon recognizes that control and automation in the process and manufacturing industry demands increasing flexibility and a high level of integration and control functions while providing a functional and friendly user interface.



The **ACSTATION®** controllers represent the single most innovative and effective solution to these demands. Consisting of 4 unique models (AC10, AC15, AC20, and AC30) the **ACSTATION®** features include:

- Up to 4 self-tuning loops with 12 resident and selectable pre-programmed control strategies
- Superior PID control with extensive internal hardware options, as well as expansion units for increased analog and digital functions (up to 8 analog inputs, 8 analog outputs, 32 digital inputs and 32 digital outputs)
- Internal real time clock and programmer sequence functions (AC30 model)
- Modbus/JBus communications as well as a simultaneous 2.5 Mb Peer-to-Peer LAN (Local Area Network) which can connect up to 8 AC Stations
- Freely programmable and configurable with complex mathematical functions
- Logic and Sequencing, Timers, Counters, Comparators, Selectors, Alarm Functions, Input Conditioning, and many more powerful function blocks
- Designed in accordance with IEC and EN Standards, the AC is also CE Listed and UL/cUL Approved
- Programmed with easy to use IEC designed Ascon AC ProGraph graphical function block configuration software
- With several thousand models installed worldwide, the AC Station is a safe and sensible choice!

2 sigmadue & sigmaPAC

S E R I E S

Ascon's **sigmadue®** offers a complete range of high performance analog and digital remote I/O modules with direct interface to virtually any control unit (PC, PLC, DCS or Operator Panel). Signal conditioning, channel to channel isolation and hardware and software filters provide fast and accurate measurements. I/O modules can be configured easily with available IEC-61131 software to suit a variety of applications. Ascon's **sigmaPAC®** is a complete control system based on feildbus technology that allows for distribution of the application along the plants or the machines. **sigmaPAC®** is a "new generation PLC" dedicated to automation control.



Features of **sigmadue®**

- Powerful processing capability
- Multi-function modules for maximum flexibility
- Fully software configurable (IEC-61131)
- Built-in Fieldbus interface for CANopen and Modbus
- Network adapters for PROFIBUS DP, Ethernet IP, and Modbus TCP

Features of **sigmaPAC®**

- Advanced PID control
- Logic and batch control
- Open connectivity to most major feildbus
- IEC-61131programming system
- Vast function block libraries to aid programming
- one system... many solutions

82 gammadue

One of Ascon's latest achievements, the **gammadue**® series of universal controllers, programmers and indicators, continues the company's success in designing, manufacturing and distributing powerful, reliable, and easy to use panel mount controllers.

gammadue® features include:

- Sizes from 1/32, 1/16, 1/8, and 1/4 DIN
- Easy to use PC configuration software (Controller Explorer)
- Accurate operation with universal inputs and outputs
- High visibility displays with easy to understand color beacons
- Configurable alarms (high, low, band, latching, blocking, ...)
- 3 year warranty, CE Marked and UL/cUL Approved
- Auto/Manual operation from front panel, over comms, or from digital input
- Short lead times with most units in stock

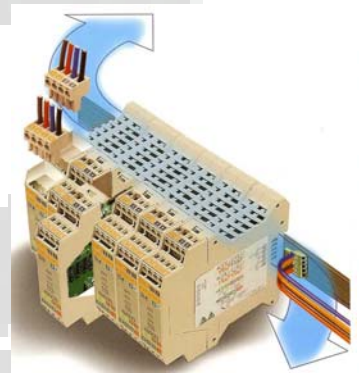


82 deltadue

Ascon's process control experience and the market's increasing need for control system integration have led to the development of the new **deltadue**® series of control and acquisition modules. Each module can operate independently as a stand-alone or distributed controller, as a set of coordinated modules as part of a complete control system, or integrated in as part of PLC and/or PC system. **deltadue**® is suitable for 1 loop to 32 loops, and either with or without an operator panel.

deltadue® features include:

- Compact DIN Rail design with a common internal power bus (24V ac/dc) and communications bus (Modbus or CanBus)
- Universal inputs, multiple outputs, timer functions, auto tuning, and accurate, easy to use operation, 3 year warranty and CE/UL/cUL
- Auxiliary power supply for 2-wire transmitters and CT input options
- Hot-swapping without affecting other modules, loops or cabling
- Easy to use PC configuration software (Controller Explorer)
- Complete module backups & Fieldbus Gateway with optional DX module



If you are looking for a **complete** modular "blind" system that offers PID or On/Off control loops or data acquisition modules with programmable alarm functions and the other advanced features listed above, then the **deltadue**® is the right product for your process. Ascon has experience in a wide variety of applications and can offer our expertise to your process problems. Offered with the **deltadue**® is a range of auto configuring touch screen operator panels.

SW software

Ascon's Controller Explorer is a software utility program that allows for complete **gammadue®** and **deltadue®** instrument configuration from a standard personal computer.



Controller Explorer searches and auto-detects for a connected instrument via RS232/RS485 Modbus® or Jbus communications or, for some models, using Ascon's APG2SCI communications converter cable. Once detected, the user follows simple menu selections in a logical configuration sequence.

With the Controller Explorer utility, programming can be performed offline and then downloaded and uploaded to similar controllers. Controller Explorer allows for simple and easy modification and configuration of all parameters in one convenient screen and environment. Configurations can then be saved to disk, printed for records, or emailed for support and review.

Controller Explorer also includes a very useful trend utility of SP, PV, and OP to assist with instrument commissioning and tuning.

Ascon also offers two very capable supervisory software packages. The first is **SpecView** which is already familiar to most control engineers. Ascon's in-house developed Supervisory software is **AutoLink**. Both programs auto detect connected Ascon products and build basic but very functional operator screens. More detailed screens can easily be prepared to suit the machine requirements and customer preferences.

ACCS components & accessories

Ascon also has a complete line of critical control components to accompany our precision controllers.

We offer the RX and RZ Series of paper and paperless recorders in the popular 100 and 200 mm sizes. Our SER Series of motorized actuators are available with several input options, slidewire feedback values, limit switches, power options, torque values and stroke times. Our TH Series of SCR power controllers are available as standard offering in 115 volt to 500 volt ranges, 16 amp to 500 amp and in single and three phase models. We offer larger units upon request. We also offer a wide range of mechanical and pneumatic valves and assemblies, pressure transmitters, solid state relays, thermocouple assemblies and combustion control systems (please contact us for specific requests and pricing). Warranty on these items vary by product line but are generally a minimum of one year.

