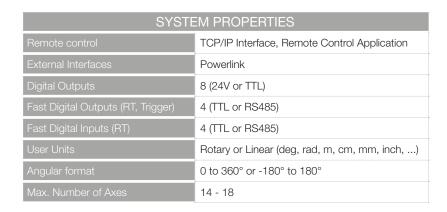# ASY-CONT-600 Series Motion Controller

sales@asysol.com

- **ASY-CONT-600-16** is a PLC/FPGA (Programmable Logic Controller/Field Programmable Gate Array) based controller specially designed for antenna measurement applications. The controller allows for manual and automatic motion control of standard and customised multi-axis positioner systems and includes the functionality for fast, real-time control of the RF-instrumentation, such as Network Analysers, RF-switches, and electronically controlled antenna systems.

- The **ASY-CONT** family of controllers form the core of a real-time distributed control system, where each positioner has its own drive. ASYSOL controllers provide flexibility and support for a variety of motors and position feedback systems. Depending on the requirements, servo, stepper, DC, AC or linear motors of any power level may be used. A variety of incremental and absolute encoders as well as dual loop control are supported.

- Remote system diagnostics are supported. Firmware updates can be achieved remotely or by USB.

- Supporting simultaneous movement of all axes allows for complex vector trajectories, complex position error correction scenarios and the optimisation of measurement speed. Both simultaneous and coordinated motion of multiple axes are supported.

- Complex trigger and control signals for RF instrumentation, PIN switches or AUT systems can be based on the position of an axis or be time based. Trigger and control signal definitions can be updated while the system is in motion, and real-time control signals support timing tests of the RF instrumentation.

- Full control can be transferred to a PC, laptop or tablet.

Specifications

SYSTEM PROPERTIES

Remote control	TCP/IP Interface, Remote Control Application
External Interfaces	Powerlink
Digital Outputs	8 (24V or TTL)
Fast Digital Outputs (RT, Trigger)	4 (TTL or RS485)
Fast Digital Inputs (RT)	4 (TTL or RS485)
User Units	Rotary or Linear (deg, rad, m, cm, mm, inch, ...)
Angular format	0 to 360° or -180° to 180°
Max. Number of Axes	14 - 18

ELECTRICAL CHARACTERISTICS

Voltage	110-240 VAC
Frequency	50-60Hz
Current	3A

OPERATING CONDITIONS

Storage	-10° to +70°
Operation	0° to +50°

DIMENSIONS

Width	44.5cm
Height	40cm
Depth	27cm
Weight	12kg

Summary of Features

- PLC/FPGA based architecture
- Real-time distributed control system for motion and RF control
- State-of-the-art field bus
- Support of a variety of motors and feedback systems
- Support of dual loop feedback
- Support of incremental and absolute position encoders
- Support of simultaneous motion of all axes, synchronous motion, coordinated motion
- Fast, real-time trigger and control signal generation based on axis position or time
- Equi-spaced or arbitrary list of trigger/control positions
- Includes control interface of slow, non-real time RF-switches
- Supports timing of RF instruments
- Support of a dual-channel emergency stop loop
- Manual control from the display
- Possibility to transfer control from the controller display to a wired/wireless tablet or PC
- TCP/IP based remote control interface, powerful XML based control language