smart controller for drives and drive systems

**smarty** is a DIN rail mounting programmable controller for drives and drive systems. It can be used to replace obsolete control cards and PLCs and provides documentation with clear, graphical function blocks and easy to follow signal flow diagrams.

**smarty** can also be networked over Ethernet with drives, operator stations, SCADA systems, etc., using the **drive.web** Internet accessible distributed control technology. The **drive.web savvy** programming and drive system design software tools can be downloaded free from [www.driveweb.com](http://www.driveweb.com)

**It’s intuitive ... if you can sketch out your control scheme, you can build it!**

- New concept alternative to a PLC
- Distributed control with unlimited bandwidth
- Cost effective for systems of any size
- Optimized for drives & drive systems
- Easy function blocks for complex systems
- Stand alone or networked
- Ethernet for programming and LAN
- Internet accessible

Typical Open Loop Winder Signal Flow Diagram

- Compact package 2.3” wide, 4.5” high, 4.7” deep
- Rugged DIN rail mount
- Plug in terminal blocks
- I/O options:
  - ModbusTCP/IP (Ethernet), ModbusRTU (RS485)
  - Qty. 7, Universal analog/digital inputs
  - Qty. 2, Analog outputs
  - Qty. 3, Configurable digital input/outputs
  - Qty. 2, Encoder inputs, bidirectional with marker

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- Uses **savvy** intelligent design and programming software
- Easy graphical function block programming
- Active graphics show real time state of switches, contacts, etc.
- Create clear graphical documentation
- Simple “drag ‘n drop” connections
- Clear page to page auto referencing
- Fast pan, zoom, home, jump to functions
- Selection of custom or standard ANSI or ISO drawing formats
- Display trend charts
- Signal Flow Diagram option
**Features**

- **Power Input**
  - +24VDC +/-15%
  - Requires ≈ 80mA + loads (1A auto reset fuse)

- **Ethernet Interface**
  - 10baseT Ethernet standard on all units
  - Provides programming and networking capability.
  - RJ45 connector for CAT-5 cable
  - Crossover cable can be used for direct single connection
  - Unit accepts IP address for Internet access

- **Drive.web Distributed Control Performance**
  - Network bandwidth virtually unlimited regardless of size
  - Device speed user settable, subject to program complexity
  - Min. execution time: 3 ms
  - Typical times: Adaptive PID + analog I/O, < 10 ms
    - Complex winder + I/O < 35 ms

- **Drive.web Options**
  - Plug-in terminals
  - Rugged metal case
  - Firmware field upgradable
  - Program from PC, Mac, Linux
  - savvy has auto updates
  - Multi-user access
  - Supports Virtual Private Network

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