



# drive.web **smarty** - Models & Options

dw110- **smarty-s** Distributed Process Controller with configuration, monitoring, diagnostics & Internet access

dw113- **smarty-so** with interface to Optidrive AC Sensorless Vector & VTC Drives

## OPTIONS

- 02 RS485, isolated, ModbusRTU (slave)
- 03 7 universal a/d inputs, 2 analog out, 3 digital i/o
- 04 ModbusTCP/IP (slave)
- 05 Function Block Library 1 - Basic Functions (Arithmetic, Logic, PID, Switches Comparator, Profiler, Presets, Latch, Filters, Counter, Timer and more)
- 06 Function Block Library 2 - Winder Controls (Dia. Calculator, Taper Tension Calculator, Torque Compensator)
- 07 Encoder 1 input. bidirectional with marker pulse
- 08 Encoder 2 input. bidirectional with marker pulse (not available on **smarty-so**)
- 09 Real time clock

## smarty specials - generic configurations

- 1101 Open Loop Winder
- 1102 Dancer Controlled Winder
- 1103 Loadcell Controlled Winder

Serial port for Optidrive interface (Optional)

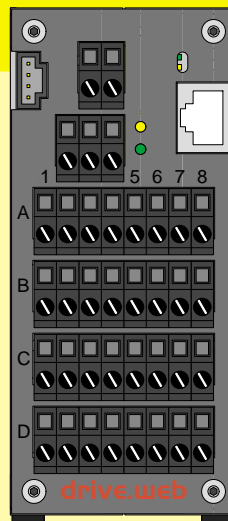
RS485 port (Optional)

Encoder 2 Input (Optional)

Encoder 1 Input (Optional)

Analog Out & Digital Input/Outputs (Optional)

Universal Input/Outputs (Optional)



## Features

Ethernet port with Link & Activity LEDs

- 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

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

**OPTION -02 - RS485 - ModbusRTU Slave**  
Isolated (250VAC maximum)  
Tx and Rx LEDs  
Direct connections or via organizer window

**OPTION -07 & -08 Encoder Input**  
Bidirectional with marker  
RS422 / RS485 receivers, 24V compliant  
300KHz max. frequency

**OPTION -03 - ANALOG & LOGIC I/O**  
+10V Reference, 10mA max.  
Qty. 2, Analog outputs, 0V to +10V  
10mA max, 10-bit resolution  
Qty. 3, Digital configurable input or output  
+24V outputs, 50mA max  
Qty. 7, Universal inputs configurable analog or digital inputs  
Analog input ranges +/- 200V, 100V, 10V, 5V, 100mV  
Digital input ranges +24V, +12V, +5V  
Differential analog inputs 10V, 5V, 100mV  
100KΩ input impedance, 12-bit resolution

## 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

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40 Log Canoe Circle, Stevensville, MD 21666 USA  
Phone 410-604-3400 Fax 410-604-3500

www.driveweb.com