Introducing
the new drive.web
smarty

The ultimate programmable controller for coordinated drives

The new *smarty* brings greatly enhanced performance, smaller packaging and even better value to the remarkable family of *drive.web smarty* and *speedy* products.

- Easy interface to most drives
- Use networked or stand alone
- Internet accessible
- Peer to peer deterministic Ethernet networking
    - 100baseTX or 10baseT Ethernet with auto-negotiation
    - Full duplex supported
    - Auto-MDIX per IEEE802.3ab (auto-crossover resolution)
    - Optional Power over Ethernet (PoE, IEEE 802.3af)
- *drive.web* distributed control
- Cost effective for systems of any size or complexity
- Intuitive, graphical function block programming tools
- Complete graphical configuration & documentation data stored in devices
- Basic i/o includes:
    - 8 terminals, configurable as either:
        - 16 bit analog inputs, +/-10 volts
        - 14 bit analog outputs, +/- 10 volts
        - or, digital inputs, 24 volts
    - 8 terminals, configurable as either:
        - 16 bit analog inputs, 0 to 10 volts
        - digital inputs, 24 volts
        - or, digital outputs, +24 volts, source or sink
- Optional i/o includes:
    - Encoder input without marker
    - 1 or 2 encoder inputs with marker and retransmit via external module
    - 1 or 2 isolated or unisolated RS485 ports
    - High voltage digital i/o isolator
    - CAN bus and others coming soon
    - USB programming port coming soon
- Firmware field upgradable
- SNTP server real time synchronization support
- 100% backward compatible with all existing *drive.web* installations
- Compact, stylish DIN rail mounting package

Approximate actual size shown
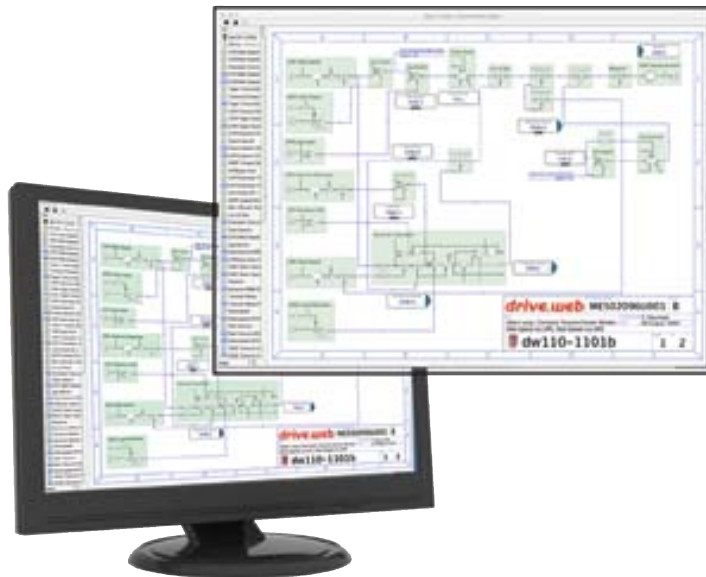(4.1" high, 4.8" deep, 0.9" wide)

Easy, Reliable Solutions
- Coordinated line drives
- Winders
- Position control
- Electronic line shaft
- Spindle orientation
- Remote system access
- Drive system integration
- Distributed i/o

Beats using any PLC on price performance and ease of programming!

the new smarty

MODEL SELECTION

dw210   *smarty* **distributed** *drive.web* **process controller complete with Ethernet and:**
Basic function block library with arithmetic, logic, clamps, switches, PI, and utilities
8 configurable i/o: 16 bit analog in, +/-10V or 14 bit analog out, +/-10V or digital in 24V
8 configurable i/o: 16 bit analog in, 0-10V or digital in 24/12/5V or digital out +24V source or sink

dw210 OPTIONS (please call for availability)

-04	Modbus TCP/IP slave
-05	Advanced Process Control Function Block Library
-06	Winder Control Function Block Library
-10	Math Function Block Library
-14	Power over Ethernet
-15	Internal encoder input (5 volts, differential A & B without marker)
-16	External encoder module interface port
-17	ModbusRTU slave (RS485) isolated port
-18	ModbusRTU slave (RS485) isolated port + external encoder module interface port
-19	ModbusRTU slave (RS485) isolated port + ModbusRTU (RS485) master unisolated
-20	ModbusRTU master (RS485) unisolated port
-21	ModbusRTU master (RS485) isolated port
-22	ModbusRTU master (RS485) unisolated port + external encoder module interface port
-23	ModbusRTU master (RS485) isolated port + external encoder module interface port
-30	115VAC digital i/o voltage isolator (each with 2, NO contacts + common and 4, 115VAC inputs +common), up to 2 per smarty
-31	230VAC digital i/o voltage isolator (each with 2, NO contacts + common and 4, 230VAC inputs +common), up to 2 per smarty

smarty **external encoder module (needs a** *smarty* **dw210 option -16, -18, -22 or -23)**

-40	External single encoder module, 5 volts with marker and one 24V event input
-41	External single encoder module, 24 volts with marker and one 24V event input
-42	External dual encoder module, 5 volts with marker and one 24V event input
-43	External dual encoder module, 24 volts with marker and one 24V event input
-44	External dual encoder module, Ch1 5 volts & Ch2 24 volts with marker and one 24V event input
-45	External encoder module RS422 retransmit outputs (±1A, ±1B, ±2A, ±2B)
-46	External encoder module 24V retransmit outputs (±1A, ±1B, ±2A, ±2B)

smarty model dw210 with external encoder module

smarty specials - pre-configured, engineered solutions

dw210-1101 Generic open loop constant tension center winder
dw210-1102 Generic closed loop dancer controlled winder
dw210-1103 Generic closed loop loadcell controlled winder
dw210-1104 Generic slip core winder controller
dw210-1105 Generic electronic line shaft
dw210-1106 Generic coordinated drive, line master controller
dw210-1107 Generic controller and networking for an analog drive

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inspired ideas
innovative solutions

drive.web control technologies

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