New for 2019 . . .

smarty dw240 series

driv∈.w∈b

the world's most advanced Universal Automation Controller

Full featured PLC Advanced Motion Control Smart Process Control

Distributed, deterministic processing over Ethernet

Homogeneous integration for drives, HMIs, remote I/O

savvy system design tools

Right for the IIoT future

Easy, intuitive, affordable, expandable

For systems of any size or complexity

Bardac drives



The NEW smarty dw240 series controller consists of a "cassette" that connects directly to system field wiring via four alternative, passive "terminal carriers". This means big installation savings!

smarty1

basic UAC - 37 terminals - Analog & Digital I/O

Generic Stock Build Includes:

100baseTX Ethernet, auto-negotiating, USB microB

Power: 24VDC

dw build options -04 -05 -25 -26, Clamp Terminals, DIN Rail Mounting

- 8 Al analog in, -11V to +11VDC, $100K\Omega$, up to 1 KHz (can be used as digital inputs)
- 8 AO analog out, \sim 0.2 to +10.5VDC, 10mA, up to 1KHz (can be used as DO or reference voltages)
- 8 DI digital in, $100K\Omega$, 8V threshold, $\pm 3V$ hysteresis, 50V max, up to 1 KHz (can also be used as event inputs)
- 8 DO digital out, 24V source, up to 350mA (shared), over current protected



smarty2

advanced UAC - 37 terminals - Analog & Digital I/O

Generic Stock Build Includes:

100baseTX Ethernet, auto-negotiating, USB microB

XIO Port for extended I/O options

Battery back up for realtime clock

Port options for CAN & ModbusRTU

Power: 24VDC

dw build options -04 -05 -06 -10 -25 -26 -29 -39,

Master Modbus RTU (unisolated), Clamp Terminals, DIN Rail Mounting

- 8 Al analog in, -11V to +11VDC, $100K\Omega$, up to 1 KHz (can be used as digital inputs)
- 8 AO analog out, ±10.5VDC, 10mA, up to 1KHz (can be used as DO or reference voltages)
- 8 DI digital in, $100K\Omega$, 8V threshold, $\pm 3V$ hysteresis, 50V max, up to 1 KHz (can also be used as event inputs)
- 8 DO, digital out, 24V source, up to 350mA (shared), internally current limited



smarty3 advanced UAC - 61 terminals - with encoder & steppers

Generic Stock Build Includes: 100baseTX, auto-negotiating, USB microB | XIO Port for extended I/O options | Battery back up for realtime clock Port options for CAN & ModbusRTU | Power: 24VDC | dw build options -04 -05 -06 -10 -25 -26 -29 -39 | Master Modbus RTU (unisolated)

Clamp Terminals | DIN Rail Mounting



(140mm x 87mm x 77mm)

- 8 AI analog in, -11V to +11VDC, $100K\Omega$, up to 1 KHz (can be used as digital inputs)
- 8 AO analog out, ±10.5VDC, 10mA, up to 1KHz (can be used as DO or reference voltages)
- 8 DI digital in, $100K\Omega$, 8V threshold, $\pm 3V$ hysteresis, 50V max, up to 1 KHz (can be used as event inputs)
- 8 DO digital out, 24V source, up to 350mA (shared) internally current limited
- 4 FT Frequency/Timing
 Frequency/event input: 5V max, up to 100KHz
 Frequency/Stepper output: 5V sinking, up to 350mA (shared)
 F inputs can be used as event inputs or digital inputs
 F outputs can be used to generate frequency,
 control stepper amplifiers or as digital outputs
- 1 AB Encoder, differential inputs (5.5V max), up to 1MHz

smarty4 advanced UAC - 103 terminals - with encoders, steppers & more!

Generic Stock Build Includes: 100baseTX Ethernet, auto-negotiating, USB microB | XIO Port for extended I/O options

Battery back up for realtime clock | Port options for CAN & ModbusRTU | Power: 24VDC | dw build options -04 -05 -06 -10 -25 -26 -29 -39

Master Modbus RTU (unisolated) | Clamp Terminals | DIN Rail Mounting



- 8 Al analog in, -11V to +11VDC, $100K\Omega$, up to 1 KHz (can be used as digital inputs)
- 8 AO analog out, ±10.5VDC, 10mA, up to 1KHz (can be used as DO or reference voltages)
- 8 DI digital in, $100K\Omega$, 8V threshold, $\pm 3V$ hysteresis, 50V max, up to 1 KHz (can also be used as event inputs)
- 8 DO digital out, 24V source, up to 350mA (shared), internally current limited
- 2 Cl Current Input, 4-20mA, 0-20mA, 20-4mA, 20-0mA, 100Ω
- 6 FI Frequency in: up to 100KHz, 30V max, 100K Ω with pull-up or pull-down. Can be event or digital inputs.
- 7 TO Timing Output, up to 500KHz, 30V max, sinking, pull-up, up to 350mA (shared). For frequencies, steppers or DO
- 2 ABZ Encoders, EIA-422/485 differential (5V max), up to 1MHz
- 2 AB Reconnect terminals for encoders

driv€.ш€b

distributed control . . . the next generation **smarty!**

smarty4

Peer-to-Peer Ethernet

Full Featured PLC Functions

Advanced Process Control Basic Motion Control

Advanced Motion Control drive.web distributed control

Modbus TCP/IP & EIP/PCCC

100baseTX Ethernet

USB microB port

8 analog inputs

8 analog outputs

8 digital inputs

8 digital outputs 4 status LEDs

XIO extended I/O port

Battery backup for clock

Optional Drive Interface

Frequency Inputs/Outputs

CANopen & ModbusRTU ports

Ge



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drive.web

*s*martu²

dw240-DM-C2CD



smarty³



dw244-DM-C4CD

dw248-DM-C4CD

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(bipolar outputs)

1

1

1

1

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Even Faster More Compact More Versatile

More Memory

More I/O

Quicker, Easier Field Wiring

100% Compatible with all existing speedys, smartys, and savvyPanels!



Designed & built with ingenuity in the USA!

eneric UAC	dw241-BX-C1CE
HEHE OAC	UWZ41-DX-C1CL

P2 Vector Drive UAC E3 Industrial Drive UAC **CANopen UAC**

ď	dw244-DN	۷
(dw248-DN	٧
(dw249-DN	۷

1-C2CD 1-C2CD 1-C2CD dw244-DM-C3CD dw248-DM-C3CD dw249-DM-C3CD

dw249-DM-C4CD ✓

(unipolar outputs) (bipolar outputs) 1

4 frequency inputs or timing outputs (2 steppers)

(bipolar outputs)

1

6 frequency inputs + 7 timing outputs (3 steppers)

1 encoder, differential AB + reconnect terminals

2 encoders, differential ABZ + reconnect terminals

Encoder