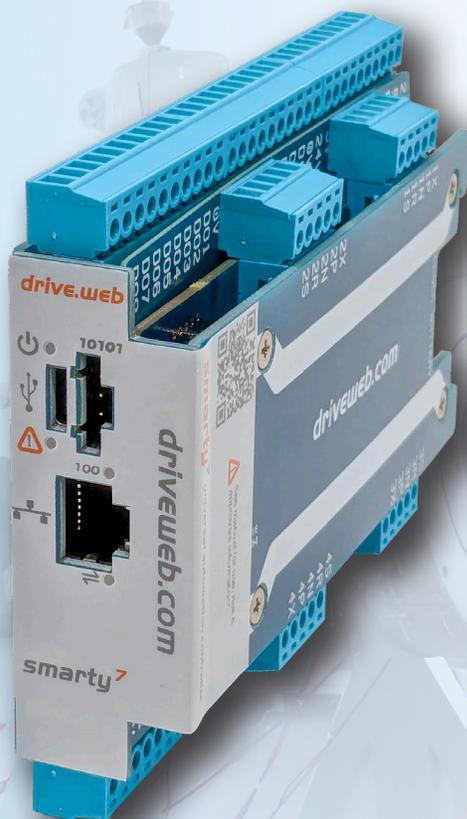# smarty⁷-T

Bardac drives

4-Zone Temperature Controller
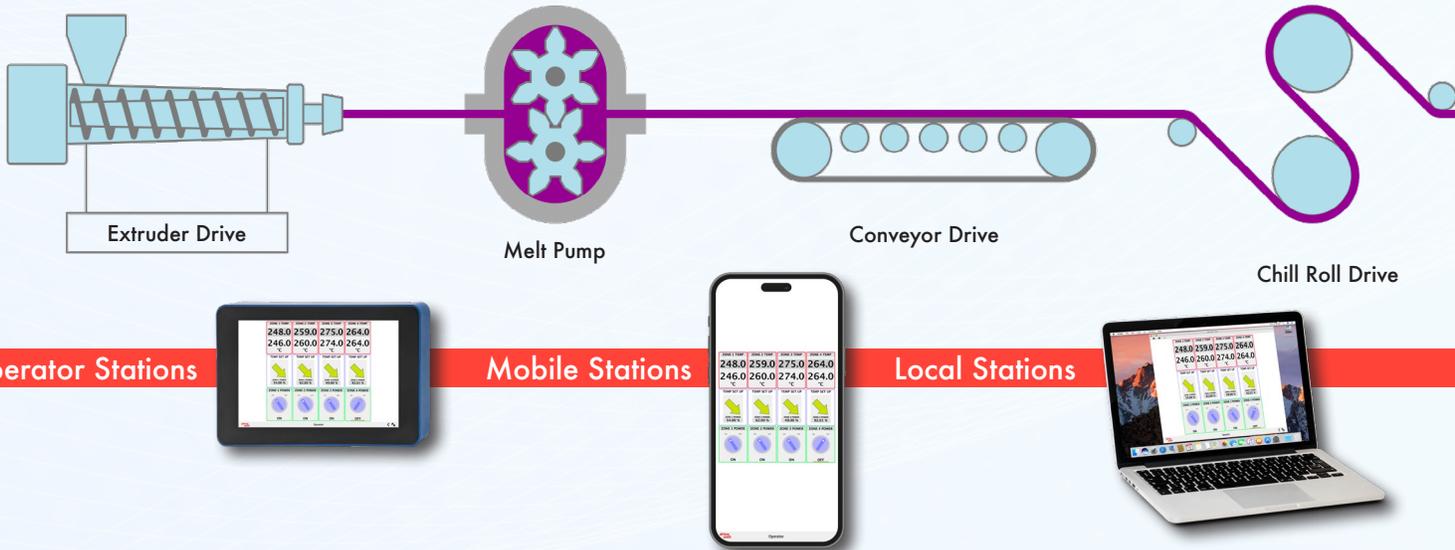### dw250-1201

Smart Precision Control

Product Overview

- Fully Isolated RTD or thermocouples
- *drive.web* distributed control over Ethernet
- Internet access & cloud Functions
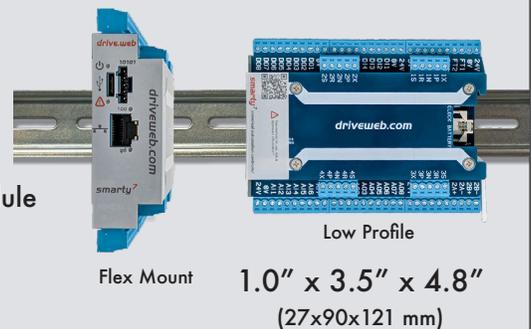- Full Featured programmable control

Call +1 410-604-3400

40 Log Canoe Circle, Stevensville, MD 21666
bardac.com | driveweb.com | automationthings.com

Extruder Drive

Melt Pump

Conveyor Drive

Chill Roll Drive

Operator Stations

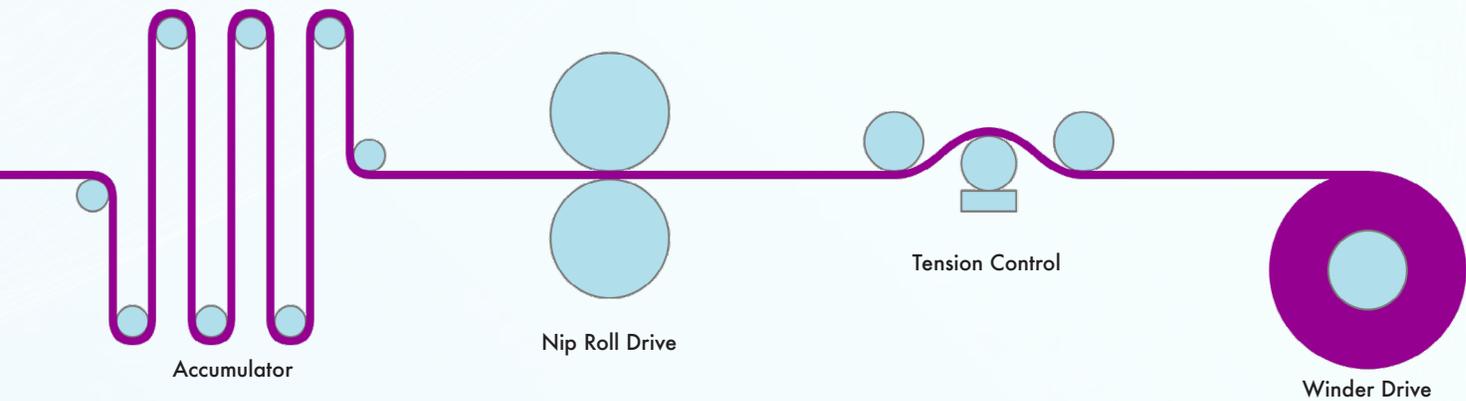Mobile Stations

Local Stations

*smarty*⁷-T Specs

- 4 zone, isolated temperature controller channels

- DIN mount with full featured programmable control in every module

- All common thermocouples and RTDs supported

- Cold junction compensation

- Easy, password protected set up (PP)

- Easy configurable power controller output options

- Masses of extra analog and logic I/O in every module

- No backplane restrictions - every module linked peer-to-peer over Ethernet

- No CPU limitations - every module provides parallel processing for infinite expansion

- Seamless integration into systems with drives, PLC, motion control & HMIs

- Add your process details and graphics to the basic Quad Controller display

- Easy data logging, trend charts and smart diagnostics

- Internet accessible with cloud functions

- Communications options include ModbusTCP/IP, ModbusRTU, EthernetIP/PCCC

Flex Mount

Low Profile

1.0" x 3.5" x 4.8"
(27x90x121 mm)

- Use USB-C or Ethernet to connect to *savvy* tools for complete system configuration and documentation - including controllers, drives, HMIs:

- Pair with a dw260 HMI for both control and set up

- Password protected access to operator and set up levels (PP)

- Add internet access

- Get *savvy* tools from https://driveweb.com/get-savvy/

- Run *savvyPanel* display on any PC, tablet or smartphone

dw250-1201 temperature controller with dw260 display

Accumulator

Nip Roll Drive

Tension Control

Winder Drive

drive.web ... configures, connects & controls everything from anywhere!

Features

- Alarm latch

- E-stop

- System and Zone Disable

- Absolute High Limit;
  Heaters are inhibited if temp exceeds.

- Alarm High/Low Limit;
  system-wide alarm annunciation with
  timestamp logging.

Mode Settings

| Manual Mode | Power output is forced to manual setting, 0 to 100% |

| On-Off Mode | PID is not used for digital output. This is a typical thermostat with hysteresis; heater turns off at setpoint and back on at SP-hysteresis. |

| Fixed-Time Mode | Digital output is controlled by the PID output via an oscillator with variable duty cycle. Typical oscillator fixed time is 1s. |

| Power Demand | 0 – 10 VDC = 0-100% Power Demand |

smarty⁷-T + savvyPanel User Interface

The *savvyPanel* user interface runs on any smartphone, tablet or PC!

- View-only home page with login tile for operator or setup. Includes color-changing zones for heating, alarm and 5 minute trends.

- Operator page with zone setters and enables. With E-stop and alarm indicator. Includes color-changing zones for heating, alarm and 5 minute trends. Can be password protected (PP)

- Setup page with zone setters and links to zone setup pages. Switch units from °C to °F. Includes color-changing zones for heating & alarm. (PP)

- Alarm setup page with zone high/low setters and latch reset. (PP)

- Zone setup pages from all the key functions including setters, indicators, page-links, color-cue backgrounds. (PP)

- Zone PID setup page provides the key PID settings plus monitors. (PP)

- System-wide alarm annunciation and reset page is available to access from any page when an alarm is present. The user can navigate back or to the home page from this page. (PP)
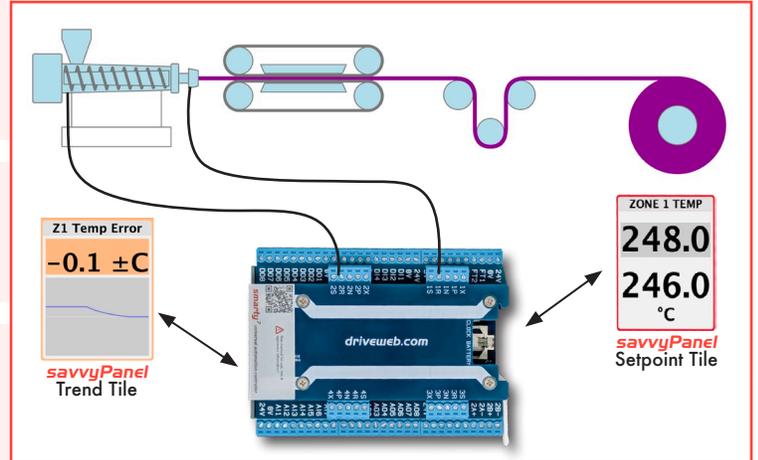

dw250-1201 temperature controller & system with dw260 display

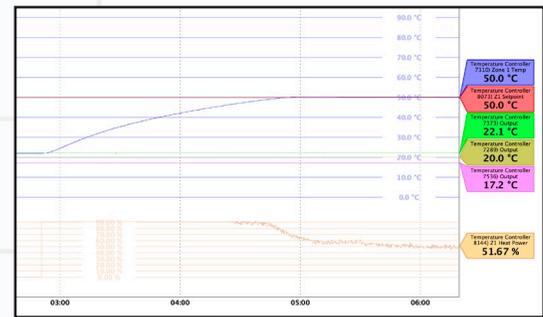# Seamless Integration into your complete system

4 Full Featured Zones

Fast Real-Time Processing

Easy Systems Integration

Z1 Temp Error
−0.1 ±C

savvyPanel
Trend Tile

ZONE 1 TEMP
248.0
246.0
°C

savvyPanel
Setpoint Tile

- Add your complete process system configuration
- Add other temperature controllers and I/O
- Add power controller and drive feedforward and feedback terms
- Add touch screens
- Easy drag & drop connections between all devices
- Powerful logic and signal processing programming functions
- Internet access and cloud functions

- Everything in one homogeneous environment
- Smart system wide navigation features.
- Complete deterministic system processing

Easy Trend Charts & Data Logging

Your entire system all in one savvy environment!

drive.web
automation

Modbus
TCP/IP

Modbus
RTU

EtherNet/IP

Bardac
drives