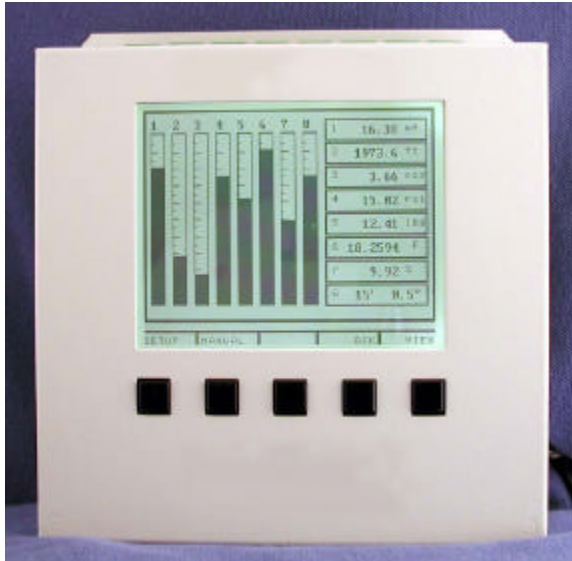


# JOWA Consilium

## ConsoliDator Multi-Channel Controller



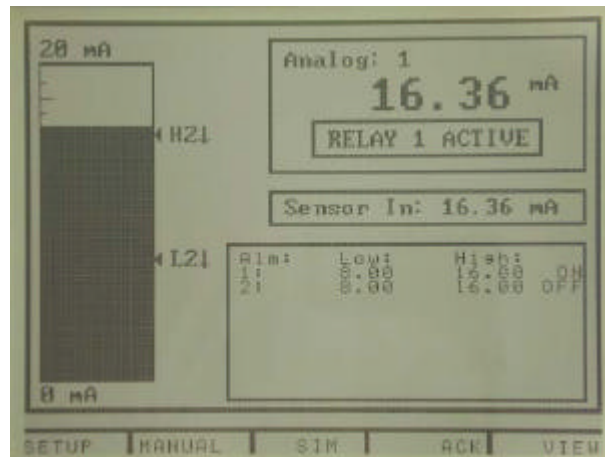
### ConsoliDator Common Features

- Multiple screens show everything
- Master screen shows all inputs
- Individual screens for each input
- Multiple setup & programming screens
- Easy on-screen programming
- Panel or wall mounting
- Easy to read LCD screen
- Visible in direct sunlight
- Backlit for dimly lit areas
- Modbus RTU communication
- Transient voltage protection
- Powered from AC *and* DC

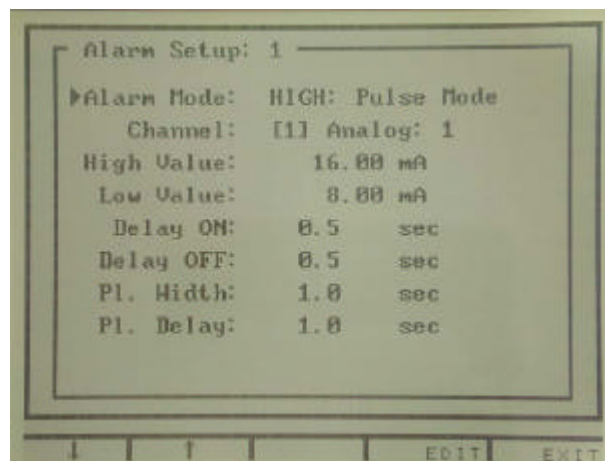
### ConsoliDator 8 Specific Features

- Eight 4-20 mA inputs
- Four pulse inputs
- Four digital inputs
- Nine 10 A relays
- Two 4-20 mA outputs

### Individual Screens for Each Input



### On-Screen Relay Programming



# ConsoliDator Multi-Channel Controller

## SPECIFICATIONS

Except where noted all specifications apply to operation at +25°C

### General

**Display:** LCD; 4.75" x 3.50" (120 x 89 mm) backlit

**Display Update Rate:** 2 seconds (0.5 Hz)

**Enclosure:** Powder-coated steel

**Color:** Warm gray

**Programming method:** Five front panel buttons

**Power:** AC: 90-264 V, 50/60 Hz, 20 VA & DC: 8-30 V, 15 W

**Surge Protection:** Analog inputs have chokes & TVSs  
Power inputs have MOVs

**Mounting:** Panel or wall mount models

**Connections:** Removable screw terminals

**Dimensions:** (H x W x D)

Wall Mount: 8.75" x 8.00" x 3.00"  
(222 mm x 203 mm x 76 mm)

Panel Mount: 8.66" x 9.36" x 3.10"  
(220 mm x 238 mm x 79 mm)

**Weight:** 5.5 lbs (2.5 kg)

### Environmental:

Operating Temp Range: 0 to 50°C (32 to 122°F)

Relative Humidity: 0 to 90% non-condensing

**Warranty:** 1 year parts & labor

## Screen Displays

**Numeric Display:** Six digits, ±999999 or feet & inches

**Engineering Units:** ppm, gal, M, lbs, g/h, psi, ozs,  
ft, mA, °C, °F, f&i, %, or user definable

**Bargraph:** 20 divisions

### Numeric & Bargraph Screen:

Numeric Displays: Eight (user selectable)

Bargraphs: Eight (user selectable)

### Individual Inputs Screen:

Numeric Display: 1 (w/ sensor input value in mA)

Bargraphs: 1 (with setpoint markings)

Relay Status: Low & high values and status

## Process Inputs

**Number:** Eight

**Input:** 4-20 mA

**Accuracy:** ±0.03% of span ±1 Count

**Short Circuit Protection:** Current limited to 40 mA max

**Transmitter Supply:** 24 VDC @ 20 mA per input

### Disclaimer:

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## Pulse Inputs

**Number:** Four

**Input:** 100 mV to 15 Vp-p; 1 Hz to 10 kHz

**Programmable Conversion Factor:** 0.00001 to 999999

**Totalizer:** Calculates total based on rate

## 4-20 mA Analog Output

**Number:** Two, assign to any process or pulse input

**Accuracy:** ± 0.05% of reading (± 0.01 mA)

**Output Loop Resistance:** 10 to 300 ohms, 12 VDC min.

**Isolation:** Line power isolated to 1500 VAC

## Modbus

**Type:** RS232 Modbus RTU

## Relays

**Type:** SPDT (Form C) with built in MOVs

**Number:** Nine

**Rating:** 10 A @ 120/240 VAC resistive load;  
1/3 HP @ 120/240 VAC inductive loads: 10 A @ 28 VDC  
Voltage Load minimum: 50 mA for AC, 10 mA @ 5 VDC

**Assignment:** Any relay may be assigned to any channel  
Multiple relays may be assigned to one channel  
All relays are programmed independently

**Cycle Monitoring:** Controller tracks time relay has been active and number of times relay has cycled on/off

**Time Delay:** 0-999 seconds, on/off delays; programmable

**Operation:** (See the Operating Manual for additional details)

**High or Low Alarm:** Assign to analog or pulse channel for on/off relay control. 100% adjustable deadband.

**Annunciator High or Low:** Assign to analog or pulse channel for on/off relay control with reset capability from digital input switch. 100% adjustable deadband. Auto or manual reset.

**Supervisory Alarm:** Indicate CPU failure or analog input loss.

**High or Low Pulse Action:** Assign to analog or pulse input channel for pulsing on/off relay control. 100% adjustable deadband.

**Trigger:** Assign to pulse channel for indication of user-defined total increment. User selectable pulse width.

**Lead-Lag Alternation (Sequence):** Link multiple relays for sequential operation. Programmable override setpoints to turn on additional relays.

**Pulse Width Modulation:** Assign to analog or pulse channel for on/off signal modulated based on input. User selectable cycle time.

## JOWA Consilium

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