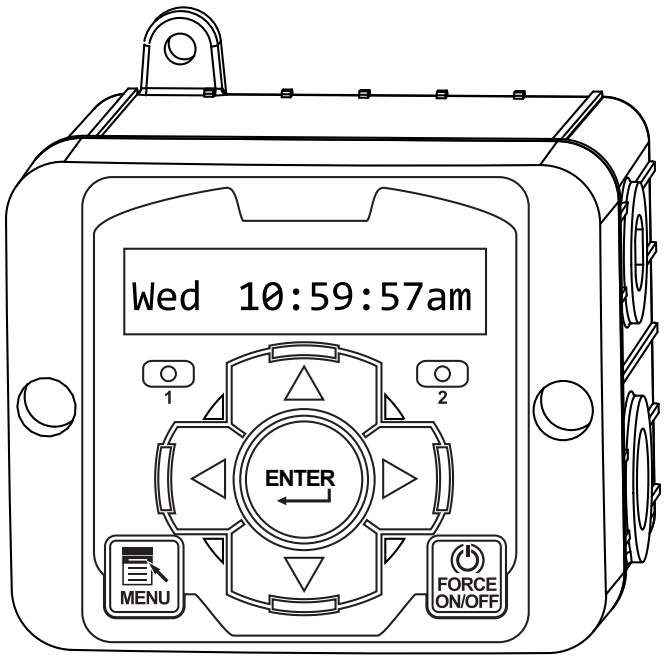
Advantage Controls — Data Sheet

NanoTron

Dual Relay Control

Microprocessor Control of:

- **Conductivity**
- **Feed Timer**
  - **Pulse**
  - **28-Day**
  - **Recycle**
  - **Post Bleed**
  - **Reminder**
  - **Batch**



ETL LISTED
Intertek

Key Features

- Compact Design
- Simple Step Through Menu
- NEMA 4X Style Enclosure
- Raised Dome Keypad
- Non-Volatile Memory
- Water Meter Totalizer
- 2 Year Warranty
- Available Flow Switch
- Prewired Configuration

Application

The NanoTron is a compact, dual relay microprocessor-based controller with many standard features. NanoTron models are available to control conductivity and one selectable feed timer, or two independently programmable feed timers.

The NanoTron platform provides an economical option for conductivity control of a cooling tower, boiler, or other recirculating water system. Selectable feed timer options include: pulse, post bleed, with bleed, recycle, 28-day, batch and reminder.

Build a Model

The model number starts with NANO followed by a single control function then any additional options. Example: NANO-C-E

Control Functions

C = Tower conductivity with 1 feed timer
C4 = Tank mount conductivity with 1 feed timer
B2 = Boiler conductivity with 1 feed timer
F2 = Two feed timers

Options

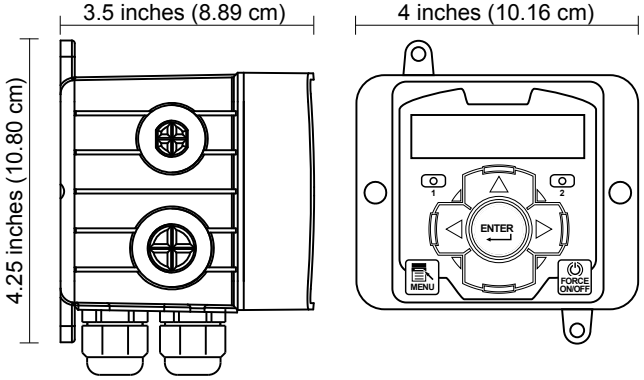
A = 120 VAC conduit connections
A3 = Liquid tights only with CE mark, 120 VAC
A5 = USA power cord and no relay cord
A7 = Australian power cord (240 VAC)
E = Float style flow switch assembly; 140 PSI @ 75°F
E3 = Paddle flow switch with PVC flow assembly
E5 = Paddle flow switch with brass assembly; 250 PSI @ 75°F (order appropriate probes)
E6 = Flow switch connection only with cable
O1 = 4-20mA output (only for Nano C/B models)
W = Larger enclosure with clear lockable cover
Y = ETL agency listing

All NanoTron units include:

- 2 relay outputs with “force on” mode
- 1 low drum alarm input
- 1 water meter input with accumulator and totalizer

NANO-F2 units include two drum level and water meter inputs and timer selections include: pulse, recycle, batch and 28-day.

Conductivity units can be set for rising or falling and continuous, timed or sample and hold.



Specifications

Electrical

- **Input:** 100-240 VAC, 50/60 Hz
- **Control:** Input VAC, 3 Amp / relay

Prewired units are supplied with an 8’ (248.84 cm) power cord and 8” (20.32 cm) output receptacles.

- **Water Meter:** Dry contact
  Hall-effect; +5 VDC input

Operational

- **Conductivity Scale Ranges:**
  Low: 10-1,000µS
  Mid: 100-7,000µS
  High: 1,000-10,000µS

- **Display:** LCD 1 x 16 backlit alphanumeric

- **Timers included in all models:**
  Pulse: 1-9999 counts, MM:SS run time
  Recycle: HH:MM off cycle, MM:SS on cycle
  28-Day: Weeks, Days, HH:MM run time

- **Conductivity models also include:**
  Batch: Manual 1 time (on MM:SS)
  Reminder: 1-99 days
  With Bleed: HH:MM limit time
  Post Bleed: 0-100%, HH:MM limit time
  Utility: Relay always ON & flow dependent

Enclosure

NEMA 4X style high impact thermoplastic

Environment

Ambient temperature: 0° to 125°F (-17 to 52°C)
Relative humidity: 0 to 100%

Electrode

Standard tower electrode is supplied in a 3/4” (1.91 cm) Sch. 80 PVC female slip tee with quick release nut.

- **TE-4A** TE-4A 150 psi (10.3 bar) / 140°F (60°C) Max
- **DC-4A** 180°F (82.22°C) max tank mount electrode

Boiler electrodes supplied with 1” (2.54 cm) MNPT bushing

- **BE-32** 250 PSI (17.2 bar) @ 400°F (204.44°C)

Shipping Weight: Approx. 2 lbs. (0.91 kg)
W Option: 6 lbs.

Dimensions:		**W Option**
Width:	4” (10.16 cm)	7.5” (19.0 cm)
Height:	4.25” (10.80 cm)	7.5” (19.0 cm)
Depth:	3.5” (8.89 cm)	5.9” (14.9 cm)

Get the Advantage

Advantage Controls
4700 Harold Abitz Dr
Muskogee, OK 74403
800-743-7431 phone
888-686-6212 fax
www.advantagecontrols.com

12/2018