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### W.H. Cooke Times

Vol. 9, No.3 Summer 2022 Free Hanover, PA

Manufacturer of thermocouples, RTD's, and thermistors and distributor of instrumentation and controls for temperature, pressure, level, flow, pH, RH, flame and gas detection and heaters for almost any application. We also carry chart recorders and chart paper and pens as well as paperless recorders, data loggers,pumps, valves, and motors, and industrial oils, solvents, lubricants and PPE. *Here is a link to our website www.whcooke.com* 

Click to follow us on social media





IN STOCK! Masks: 3 ply, KN95, N95 Hand Sanitizer, Gloves, Gowns & more!

> PPE Page 1





Quarter in Review-1 week to ship Thermocouples & RTD's and IN STOCK Temperature Controls

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ENCODER

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Antunes Pressure Switches IN STOCK!!! Page 7 THERE ARE TWO TYPES OF PEOPLE:



Summer Humor! Page 8

# \*PPE Sale\*

\*PPE Sale\* on 3 ply masks, KN95 masks, hand sanitizer, and face shields

### \*Call for Bulk Pricing\*



Level 1 3 ply Masks \$15/50



KN95 masks \$1/ea 5 pc minimum

\*UPS Shipping charges will apply



#### 16 oz Hand Sanitizer \$1/ea No Minimum

Kids Face Shield \$1/ea No Minimum

\*UPS Shipping charges will apply

Kid's Face Shields

\*UPS Shipping charges will apply



### Adult Face Shield \$1/ea No Minimum

\*UPS Shipping charges will apply

Call for Bulk Pricing

You can also visit our Online Shop



### Quarter in Review



Cal Controls in stock and with no order minimum!

W. H. Cooke & Co. has stock of Cal 320000's and a few other Cal Control and West models. Order minimums of (10) as previously dictated by the factory are being waived by us. Incoming freight to W. H. Cooke will apply or we can drop ship for a fee as dictated by the factory. Lead times for new orders is 155 working days if we do not have stock. Please get ahead of these supply chain issues and place your orders for temperature controls asap.We can also set up blanket orders to be released within 1 year.

Gems and Setra pressure transducer delivery is not as far out as the temperature controls, but we are still encouraging our customers to plan ahead as the supply chain issues continue.

If you have a Gems product for temperature, level, flow, or pressure, please reach out for a quote and send your request to team@whcooke.com or give us a call at 717-630-2222







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## **Product Lines**



# Boiler & HVAC Parts



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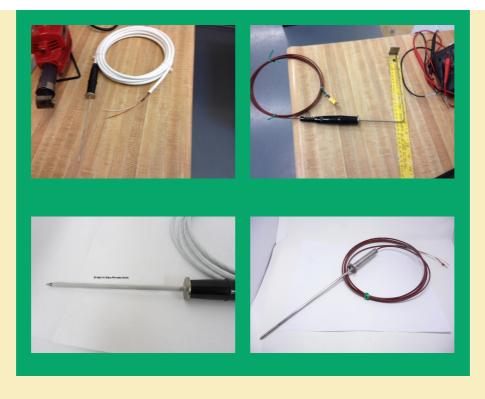
# Sensor of the Quarter - Hand Held Probes

We can make a variety of hand held probes to suit your application including hand held probes for penetration of meats in Smokehouses or other food applications. If you are dipping your probe into a corrosive chemical, we can put a Teflon coating on the probe.

Our hand held probes can be thermocouples, RTD's, or thermistors. Options for material of the handle include stainless steel and nylon and for the lead wire we have many materials to choose from including Teflon, Fiberglass, PVC, and more. If you need stainless steel flex hose for

additional protection, that is also an option. We have coiled cords in standard duty or heavy duty. Whether you need a sharp tip, rounded tip, flat tip, or a spring-loaded tip for measuring surface temperatures, we can work with you

to come up with the right probe for your application.



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# Tech Tips

How to check to see if a thermocouple is functional and if it is grounded or ungrounded

Part 1 of a 2 part series with Wayne Cooke

**A.** Check for continuity by using a multimeter set up to measure ohms. Connect the multimeter test leads to the 2 thermocouple leads (polarity doesn't matter for this test) and if the meter reads 0 or open circuit, then at least one of the thermocouple leads are broken. Could be at the tip and not visible to you or could be somewhere along the lead wire portion of the assembly.

If you do get a reading it should be several ohms (for a short assembly) to 20, 30, 50 ohms or more depending on the lead length. Ex: a 4 ft. length of 20 gauge type J (iron-constantan) lead wire = 1.396 ohms (.349 / ohm per combined ft. x 4)

**B.** To determine if a thermocouple is grounded or ungrounded, perform this check. Using the multimeter in the resistance measuring mode, connect one lead of the meter to one lead of the thermocouple and touch the other meter lead to the sheath of the thermocouple. The meter should read 0 or open if that lead (or side) of the thermocouple is ungrounded. Repeat test on other lead of thermocouple and observe reading. If open that lead is also isolated from the sheath and the sensor is ungrounded. Grounded thermocouples are more responsive to a change in temperature while ungrounded thermocouples are useful when there is electrical noise in the area of the thermocouple and that noise could be induced into the sensor.

**Note:** When checking an "ungrounded" thermocouple, it is possible to have some leakage to ground in a mineral insulated thermocouple. It is difficult to keep the magnesium oxide insulation in a mineral insulated thermocouples (MgOs) completely dry. Most of the time this is not a problem when it's connected to an instrument or PLC input module, even though you might see some resistance to ground in the megaohm or even kilohm range. When the thermocouple is heated in the process, it tends to drive the moisture out of the tube and create better isolation.

### Stay tuned for part 2: Polarity checks



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Antunes Pressure Switches IN STOCK!!



### Summer!

#### Words of Wisdom from Children:

Never trust a dog to watch your food. -Patrick, age 10

When your dad is mad and asks "Do I look stupid?" don't answer him. - Michael, age 14

Don't sneeze in front of mom when you're eating crackers. - Mitchell, age 12

If you want a kitten, start out by asking for a horse. - Naomi, age 15

Never hold a dust buster and a cat at the same time. - Kyoyo, age 9

#### Jokes:

Why should you never blame a dolphin for doing anything wrong? Because they never do it on porpoise!2

Why can't basketball players go on vacation? They would get called for traveling!

Which letter of the alphabet is the coolest? Iced "T"!

Why are fish never good tennis players? Because they never get close to the net! What's gray, has four legs and a trunk? A mouse on vacation!

What do you call a snowman in July? A puddle!

What's black and white and red all over? A zebra with a sunburn!



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