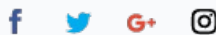


W.H. Cooke Times

Vol. 8, No.4 Fall 2021 Hanover, PA
Free

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



See Below for our \$1 PPE Sale



PPE
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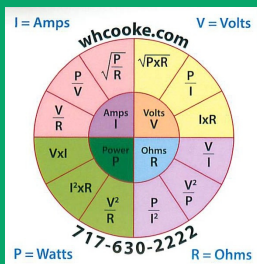
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PPE

PPE Sale
on
KN95 masks, hand sanitizer, and face shields



KN95 masks
\$1/ea 5 pc minimum

*UPS Shipping charges will apply



16 oz Hand Sanitizer
\$1/ea No Minimum

*UPS Shipping charges will apply



Kid's Face Shields



- Fits Over Prescription or Protective Eyewear
- Anti-Fog and Splash Resistant PET Visor for High Optical Clarity
- Soft Foam Headband and Lightweight Construction for Maximum Comfort

SKU	Design	Packaging	Carton Dim.	Net Weight	Gross Weight
FSK100074	Unisex	50 Pack/Box	50cm x 50.5cm x 55cm	12 kg	12.5 kg
FSK100070	Unisex	50 Pack/Box	50cm x 50.5cm x 55cm	11.5 kg	12 kg
FSK100048	Unisex	50 Pack/Box	50cm x 50.5cm x 55cm	11.5 kg	12 kg

Kids Face Shield \$1/ea No Minimum

*UPS Shipping charges will apply

Adult Face Shield \$1/ea No Minimum

*UPS Shipping charges will apply

We still have a large stock of 3 ply masks, KN95 masks, Face Shields for both adults and children, Hand Sanitizer gel, and XL Nitrile Gloves. Please see below offering and if you need something listed here please email team@whcooke.com and let us know what you need.

You can also visit our [Online Shop](#).

** PPE Products **



Level 3 Black 4-ply
Made in USA
\$.99/ea
\$49.50/50pc



Level 3 Face Mask
Made in USA
\$.99/ea
\$49.50/50pc



Level 1 Disposable Face Mask
\$15/50 pc



Level 2 Face Mask
\$30/50pc



Cloth Mask
Made in USA
\$30/pk of 10



N95 Masks
\$70/20pc



KN95
\$40/20 pc

W.H. Cooke & Co., Inc.
6868 York Rd, Hanover, PA 17331 717-630-2222

****PPE Products****



Kid's Face Shield
\$5/10 pc



Face Shield
\$10.50/10 pc



Nitrile Gloves XL
CALL FOR PRICE & AVAILABILITY



Vinyl Gloves
CALL FOR PRICE & AVAILABILITY



Nitrile Gloves Medium
CALL FOR PRICE & AVAILABILITY



Hand Sanitizer Gallon
CALL FOR PRICE & AVAILABILITY



Hand Sanitizer 16.9oz
\$70/case of 35
(Includes Pump)

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****PPE Products****



Level 2 Disposable Isolation Gown (SMS)
\$7/ea 3 case min
80 gowns per case of same size
(can mix & match if we have stock)
Currently have:
10 Medium in stock/\$50
11 Large in stock/\$50
*after current stock is gone 3 case min will apply



Reusable Forehead Thermometer
\$10/10 pc



Stick-on, Disposable Forehead Thermometer
\$25/box of 100



Mask Strap
\$15/10 pc



Spare Pump (For Gallon Only)
\$1/ea

W.H. Cooke & Co., Inc.
6868 York Rd, Hanover, PA 17331 717-630-2222

Quarter in Review

Fall is here and we are having a sale on Definox Sanitary Valves. Please see below and if you have other valves not listed here or valves with actuators that you need to get quotes on please let us know how we can help. Winter is around the corner so if you want to get ahead of freeze protection for your pipes, cooling towers, and more, please reach out.

Lead times continue to be problematic although we are well tooled up with supplies to make our thermocouples and RTD's. As far as the controllers, digital displays, recorders, loggers, or other instruments that you are using with your thermocouples or level, flow, pressure, ph, sensors, we may be able to cross you over to another brand if you are up against 12-week lead times with your other suppliers.

Thank you for the opportunity to serve you and call us at 717-630-2222 or email team@whcooke.com for any of your controls, sensors, heaters, PPE, and other industrial and commercial needs.

Sincerely,

Wayne H. Cooke

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Product Lines

W. H. Cooke & Co., Inc. - Product Lines

 <p>Thermocouples & RTDs</p>	 <p>Scales, Balances, & Calibration Weights</p>	 <p>Analog and Industrial Water Treatment Controllers</p>	 <p>Air & Gas Pressure Switches</p>	 <p>EPDM Pipe & Gasket Insulation</p>
 <p>Electrical Boxes & Enclosures</p>	 <p>Pressure, Level, Temperature Switches & Transmitters</p>	 <p>Automation Products Group, Inc. Level & Pressure Sensors / Transmitters</p>	 <p>pH, ORP, Conductivity</p>	 <p>Temperature and Process Controls</p>
 <p>SMART TRANSMITTERS Smart Transmitters</p>	 <p>Cleaning Validation & Color in Solids/Liquids</p>	 <p>Industrial Heating & Heat Trace Solutions</p>	 <p>Wireless Data Loggers</p>	 <p>Instrument & Control Repair</p>
 <p>Precision Pneumatic Electropneumatic Controls</p>	 <p>Flowmeters - Magnetic, Vortex, Turbine, Oval Gear, Paddlewheel</p>	 <p>Unique Split Sheath Cartridge Heaters</p>	 <p>Digital Panel Meters</p>	 <p>Positive Temperature Coefficient Self-Regulating Heating Elements</p>
 <p>Sanitary Valves</p>	 <p>Chart Recorders & Data Loggers</p>	 <p>Water Powered Dosing Technology</p>	 <p>Pressure, Flow, Level Sensors & Controls</p>	 <p>Temperature Controls</p>
 <p>Infrared Heat Guns, Electrical Test Instruments</p>	 <p>Gas & Flame Detection</p>	 <p>Portable Gas Detection Instrumentation</p>	 <p>Wet Pressure & Temperature Transducers</p>	 <p>Proximity, Photoelectric, Pneumatic, Capacitive</p>
 <p>Force & Torque Measurement</p>	 <p>Immersion & Tubular Electric Heating Elements</p>	 <p>Temperature Transmitters</p>	 <p>Heaters for Drums, Tubes, & Containers</p>	 <p>Temperature, Level, and Humidity Sensors</p>
 <p>Laboratory & Industrial Instruments, Temperature & pH</p>	 <p>Level, Pressure, Flow Instruments</p>	 <p>Electronics for Measurement, Control & Networking</p>	 <p>Temperature Controllers</p>	 <p>Industrial & Sanitary Level Controls</p>
 <p>Solenoid Valves</p>	 <p>Wireless Data Loggers</p>	 <p>Cartridge & Band Heaters</p>	 <p>Portable Clamp On Flow Meters</p>	 <p>Data Loggers (Paperless Recording)</p>
 <p>Measurement, Control, Recording</p>	 <p>Temperature Controls & Recorders</p>	 <p>Panel & Process Meters</p>	 <p>Wet Process Heating & Cooling Equipment</p>	 <p>Flame Safety</p>
 <p>INSTRUMENTS Thermometers & Pressure Gauges / Transmitters</p>	 <p>Electronic Measuring & Calibration Instruments</p>	 <p>Industrial Insulation Blankets</p>	 <p>RH Sensors / Transmitters</p>	 <p>Pressure Gauges & Transmitters</p>



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Email: sales@whcooke.com

Boiler & HVAC Parts

HVAC and Boiler Supplies



UV/Flame Sensors, Solenoid Valves, Motor Actuators,
Gas Valves & Regulators, Air/Gas Pressure Switches,
Burner Controls, Insulation, O-rings, Gaskets

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Tech Tips

Ohms Law and how it can help you

Ohms law is named for a German physicist Georg Ohm, and it states that the voltage across a resistor is directly proportional to the current flowing through the resistance. A simple formula, Ohm's law, is used to show the relationship of current, voltage, and resistance. $V=IR$

V = Voltage in volts

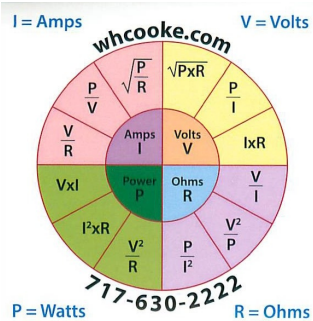
I = Current in amps

R= Resistance in Ohms

This can also be expressed as $R=V/I$, and $I=V/R$.

To find the Voltage, (V) [$V = I \times R$] V (volts) = I (amps) x R (Ω)

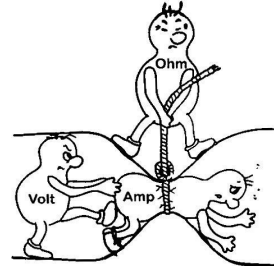
To find the Current, (I) [$I = V \div R$] I (amps) = V (volts) \div R (Ω)



To find the Resistance, (R) [$R = V \div I$] $R (\Omega) = V$ (volts) \div I (amps)

To find the Power (P) [$P = V \times I$] P (watts) = V (volts) \times I (amps)

The continuous movement of electric charge through the conductors of a circuit is called a current and it is often referred to in terms of "flow," just like the flow of a liquid through a pipe. The force motivating charge carriers to "flow" in a circuit is called voltage. Current tends to move through the conductors with some degree of friction, or opposition to motion. This opposition to motion is called resistance. Sometimes these relationships are shown as this nifty cartoon.



The relationship of voltage, current, and resistance is used to define nearly every circuit that is made, whether something as simple as the light you turned on when you got up this morning, the switch on your coffee maker, or the computer that you reading this on now.

I understand you probably do not design coffee makers, computers, or even light bulbs, but knowing this can help. Since you only need to know two of the three components of Ohms law to figure out the third, lets give you a practical use. Maybe you are setting up a heater on a line and want to know if the relay from the controller that is rated 5 amps can turn on the heater or if you need a larger external relay to switch the load. The heater you have is 1500 Watts and your supply power is 240V. Divide the power, 1500W, by the voltage, $240 = 6.25$ amps. 6.25 amps exceeds the 5 amp rating of your controller relay, so now you know you need a larger, external relay or SCR to turn on the heater.

Another common example would be you have a heater in a piece of equipment that has been running for years, and you want to be sure you have a spare heater. The problem is when you pull the heater out of service to inspect it, there are no markings as to what it is or who made it. Or maybe there were, but they are all burnt over and unreadable, what are you going to do? Well, of course you can use Ohms law.

What do you know about the heater... maybe you have it hooked up to 240V single phase supply voltage. If you measure the amperage draw of the heater, you now have I or the current draw of the heater. Lets say you measured 8.33 amps. Using ohms law you can now calculate the wattage of the heater since you know the supply voltage (V) and current draw (I) of the heater: $P = V \times I$ $240V \times 8.33A = 2000W$, so now you know you need a 2000 watt heater at 240V as a replacement.

I should mention the above calculation only works with single phase power. If you are using 3 phase power, this is a whole different calculation and is not covered here.

There are tons of ways you can use Ohms law. I will not bore you with any further examples here, but I will share a tip. Remembering all the various

combinations of $V=IR$, or $R = V/I$ can be tough. I mostly use an online calculator to do the math for me. One can be found here. All you need is 2 or more of the variables. <http://www.ohmslawcalculator.com/ohms-law-calculator>

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Definox Sanitary BFV

Sale



Definox Sanitary BFV

- \$185.70 1" tri-clamp sanitary BFV with EPDM seat, 3 position

- \$201.50 1.5", 316 SS Body, EPDM seals

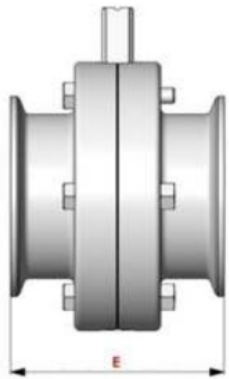
- \$225.00 2" tri-clamp sanitary BFV with EPDM seat, 3 position

- \$258.00 2.5" tri-clamp sanitary BFV with EPDM seat, 3 position

- \$281.85 3" BFV with manual right opening handle, tri-clamp ports, 316SS body, EPDM seat

- \$427.85 4" tri-clamp sanitary BFV with EPDM seat 3 position

- \$989.50 6" tri-clamp sanitary BFV with EPDM seat, 3 position



Overall dimension = E

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Featured Product

Heavy Duty Cords

Many of our customers have standardized on our heavy duty cords for their sensors. Not only are the cords more rugged than typical lead wire, many can stretch up to 6 feet or more which is much more convenient than having a long lead wire dragging around behind you which can get snagged or damaged.



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In The Community- Jaycees Halloween Parade



After the hiccup of 2020 the Hanover Area Jaycees Halloween Parade is back for 2021.

We enjoy a small community complete with main street activities like an Annual Halloween Parade. This parade is a little over a mile. Chairs can be seen a full day or two before the parade, lining Baltimore Street through the square. Candy is thrown to kids along the route from floats made by area schools and businesses.

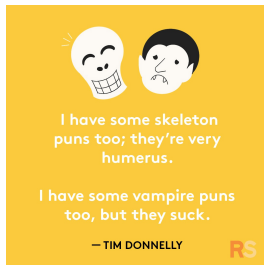
This is one of the big events for the area. This year the even takes place on October 28th beginning at 7:30. If you find yourself in the area stop and take in the small town atmosphere with a parade.

Pictures are from 2019.



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Fall Punnies



Page 9

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team@whcooke.com 717-630-2222

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