

# Nitrogen / Gas Purge Timer Control Box

4.3"  
Touchscreen  
HMi / PLC  
Control  
Systems

Timer control box can be used to control gas flow (inert gas, air in current configuration; custom configuration available upon request with Swagelok fittings for non-inert gases).

Nitrogen / Gas Purge Timer Control Box

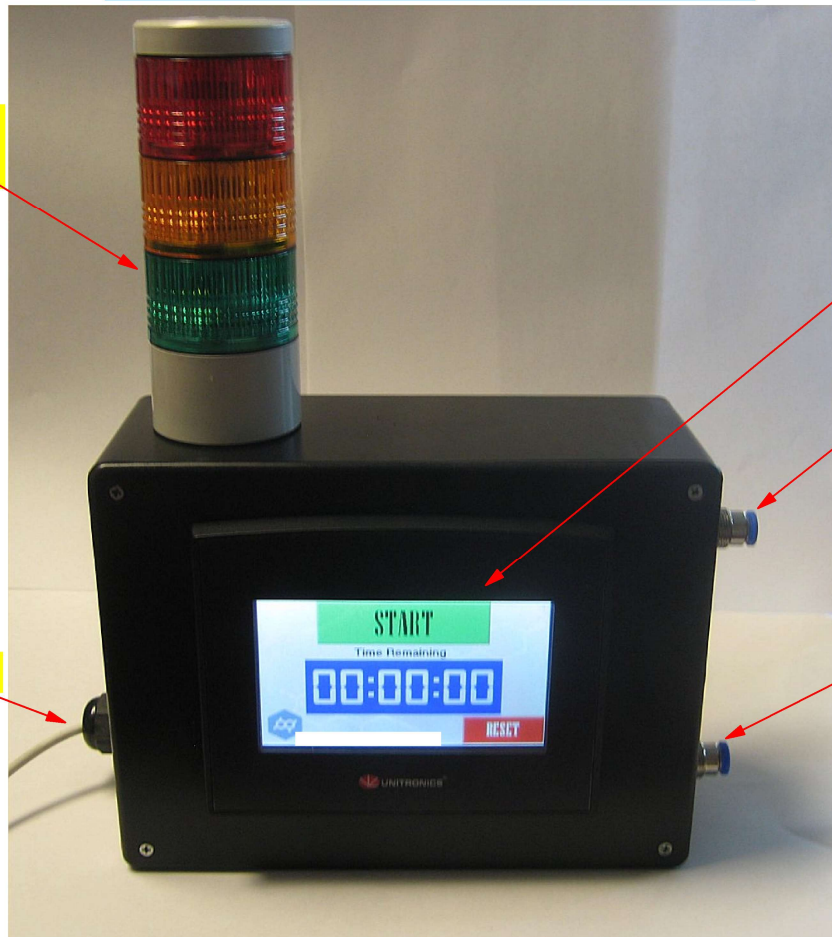
Status Light - Green -  
ON = Purging in  
process

HMi Touch Screen  
Interface

Nitrogen / Gas Input -  
1/4" quick connect

120Vac Input Cable

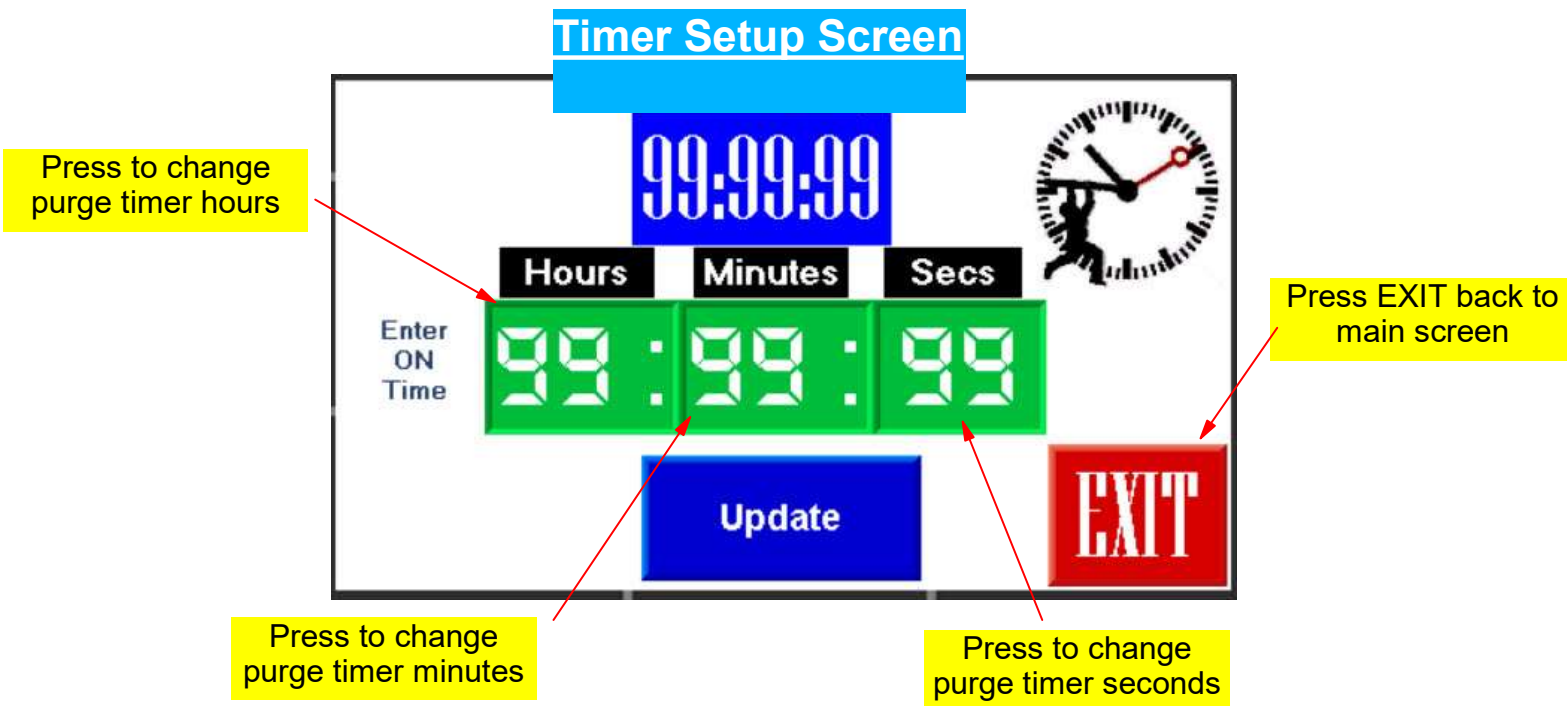
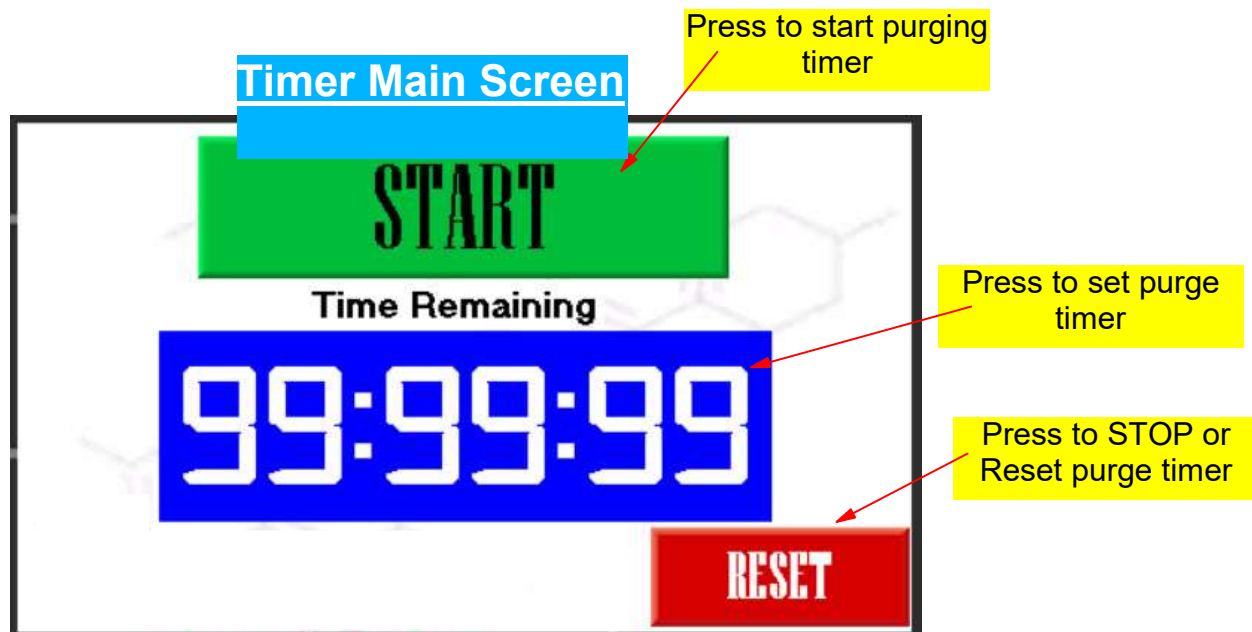
Nitrogen / Gas Output -  
1/4" quick connect



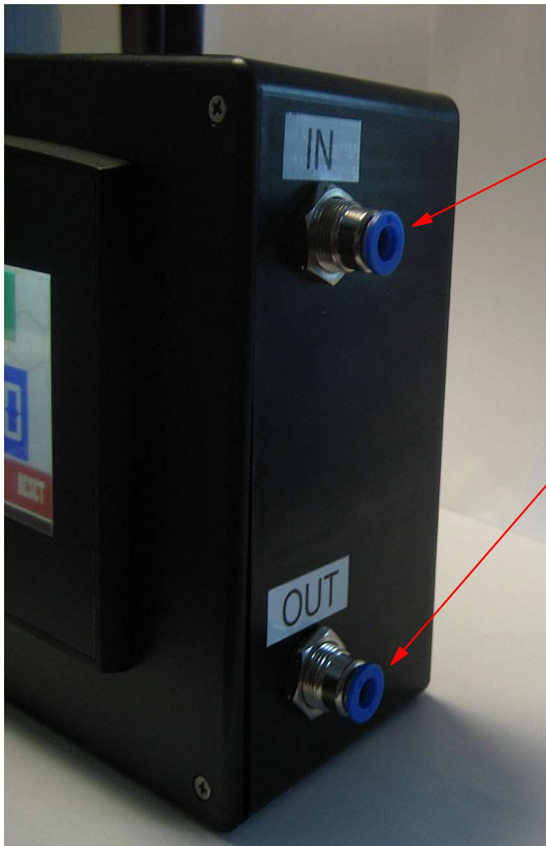
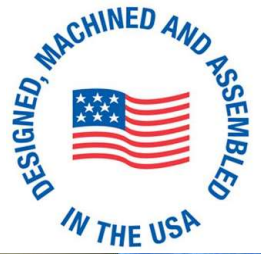
- Model: HCS-3250Hardware
- Dimensions: 8" long x 6" high x 3" deep for box with LED stacklight 5-1/8" tall x 2" diameter
- Electrical: 120Vac input with 24VDC output to PLC controls
- PLC System: Unitronics Samba SM43-J-TA22 PLC; 4.3"Touchscreen HMi with 12 digital inputs, 8 transistor outputs; 4 analog inputs (temperature, 4-20mA, 0-10Vdc); 2 analog outputs (4-20mA; 0-10V). SPARES available: 12 digital inputs; 4 transistor outputs 4 analog inputs; 2 analog outputs
- Solenoid Valve: Stainless Steel with Viton seals / teflon diaphragm; \_24V; Normally Closed; 1/4" quick connect fittings; 0 - 145 psi gas; 0 - 115 psi water; 70psi max for oils; 265 °F max temperature.
- Support: Phone / E-mail support free for 6 months.
- Custom Mods: Current configuration: 1/4" Pneumatic tubing for inert gases ONLY. Custom mods available upon request for non-inert gases and fluids. Custom software mods.

## Operational Description:

- Timer control box uses a 4.3" touchscreen interface that allows the operator to set a timer with an "ON" delay time ranging from 99 hours, 99 minutes and 99 seconds down to 1 second. When "START" button is pressed the green stack light will come on and stay on until timer expires. A solenoid valve with teflon diaphragm that is normally closed (NC) will open and remain open while the timer is counting down. Once the green light goes out, the solenoid valve closes thus ending the purge cycle.



## Mechanical Setup

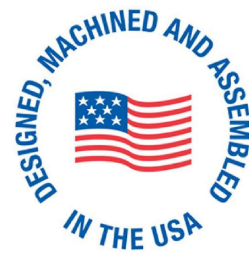


Plug in 1/4"  
pneumatic tubing into  
quick connect fitting  
for supply (input) side  
here

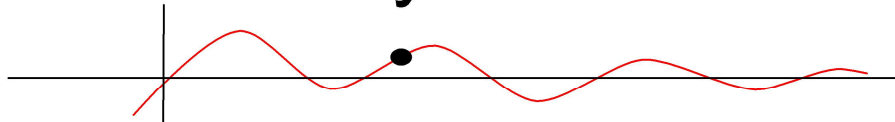
Plug in 1/4"  
pneumatic tubing into  
quick connect fitting  
for output side here

Plug in unit to  
120VAC wall plug  
here





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