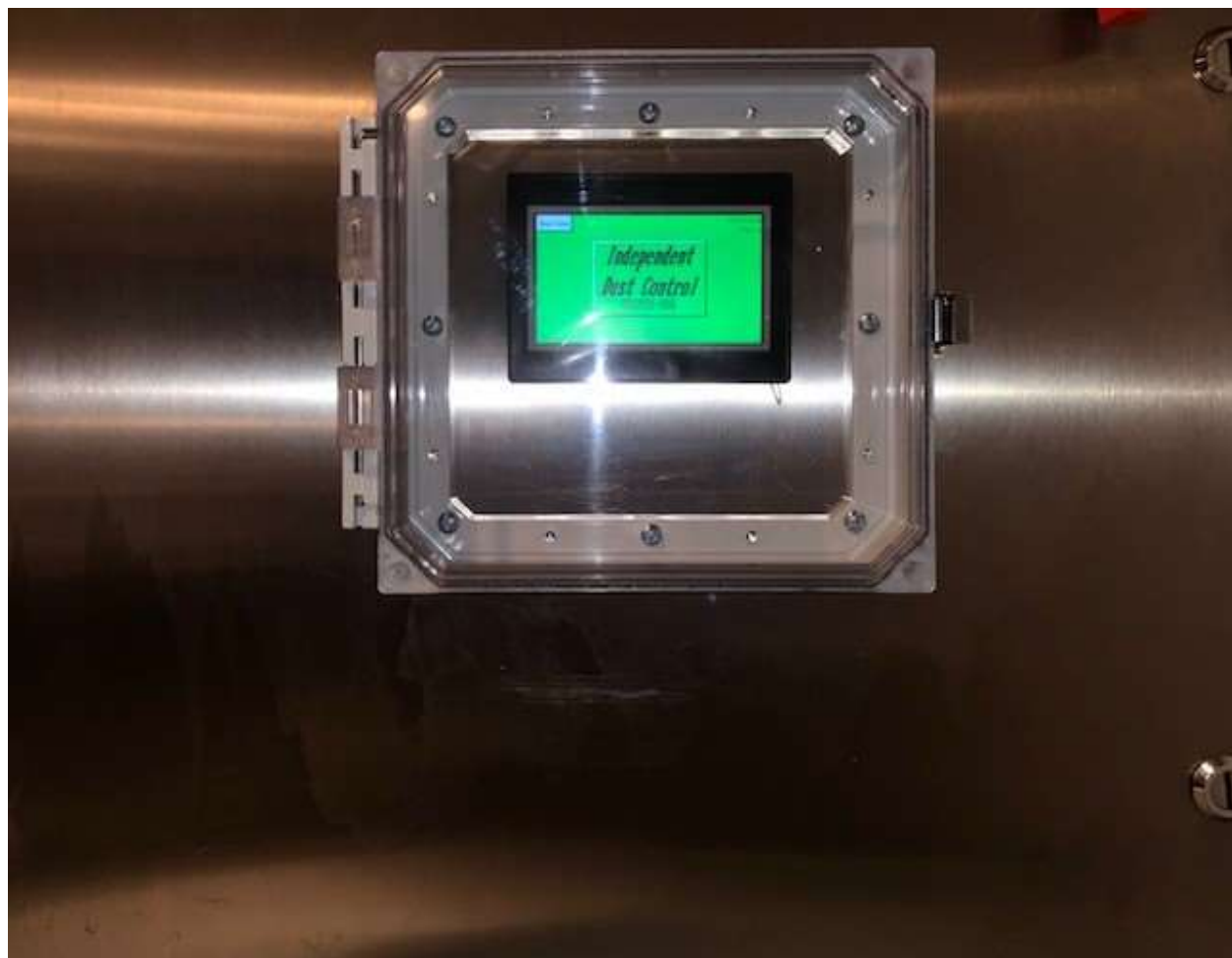# Independent Dust Control HMI User Interface User's Manual

Home Screen

Upon powering up the Independent Dust Control unit, the HMI will automatically go to its home screen. On the home screen, you'll see the Independent Dust Control logo in the center of the screen and the Main Menu and Main Pump icon on the top left corner of the screen. By touching either one of these icons or the logo you'll be taken to the Main Pump screen.

You'll also see the time and date in the top right corner of the screen. If there is an alarm present, the alarm indicator will appear below the date.

Main Pump Screen

Once you touch to Main Menu, Main Pump icon, or the Independent Dust Control logo, you are automatically taken to your Main Pump screen. On the Main Pump screen, the icons to access all other screens will be across the top.

The icons are Zones, PSI & GPM, Cold Weather, Timers, Maintenance, and Home. If you move to another screen, the Main Pump icon will be in the top left corner of the screen.

There will also be an icon on the left side of the screen for the main pump. You can start the main pump by simply touching the icon. Once you press the icon for the main pump, the icon will turn green and say "On".

If for any reason the main pump does not start, an alarm will appear in the top right corner of the screen. Along with the alarm, the icon for the main pump start will display what the fault was that prevented the main pump from starting.

You can get help for troubleshooting the alarm by going to the maintenance screen and touching the icon for whatever fault is present.

NOTE: You can get to the Maintenance screen by either touching the Maintenance icon or the Alarm icon. The alarm ONLY takes you to the Maintenance screen.

Also, once the main pump is running, the main pump icon in the top left corner of the screen will turn green and will now say "Main Pump ON". This icon is not on the main pump screen but is on all other screens in the top left corner.

Zones Screen

On the Zones screen, you'll see the icons for each zone your unit is equipped with. For example, the picture to the left is on an 8 zone unit; therefore, you can see zones 1 through 8 on the screen.

To turn a zone on, simply touch the icon for the zone you want to turn on. If the zone fuse is bad, the icon will say "Bad Fuse" instead of off and the zone will not turn on. There will also be an alarm present in the top left corner.

Note: The zones will not turn on unless the main pump is already on and has been on for 6 seconds. The 6 second delay is done to ensure that water is flowing and allow the pump time to build pressure.
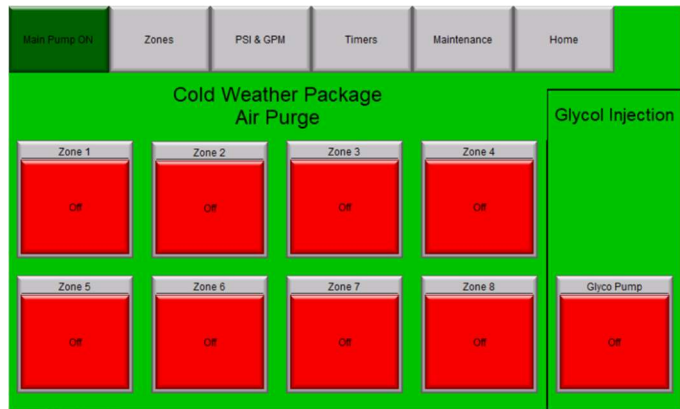
PSI & GPM Screen

On the PSI & GPM Screen, you can view your Air Pressure, Water Pressure, Gallons Per Minute (GPM), and Tank Level. The IDC unit comes equipped with a GPM sensor, as well as pressure transmitters in the water and air manifolds.

Note: If you did not buy your water storage tank with your unit, you can still get the on-screen tank level by installing a 4 to 20mA ultrasonic level sensor in your storage tank.

Cold Weather & Timers Screens

If your IDC unit is equipped with a cold-weather package, there will be 2 extra screens. The first will be the Cold Weather screen where you can turn on the air purge for each zone. Only one zone will purge at a time. You can start all the zones you want to purge at the same time by clicking the associated icons. The zone that is purging will say "Air On", while the other zones will say Waiting On Other Zones".

There is also an icon for Glycol Injection on the bottom right corner. If you wish to use glycol, you have to turn the glycol injection on by clicking the icon. If the glycol pump is set to "ON" when the zone is purging, it will first air purge then inject glycol and air purge again.

The second screen you'll see is the Timers screen. In this screen, you can set the Air Purge and Glycol Injection timers.

Simply touch the timer you want to adjust, and a keypad will appear on the screen. Next hit "CLR" to clear the old time from the timer. Enter the new time you want and hit "ENT".

Maintenance Screen

On the Maintenance screen, you can see all of the Alarm indicators. Any indicator that is currently in an "alarm state" will be red and designate what the alarm is. In the picture to the right, all indicators are green, meaning no alarms are currently active.

Any red indicator is a touchable icon that will take you to a help screen with tips for troubleshooting.

Remote Operator

IDC units are able to be equipped with a remote HMI operators.

To connect your remote operator to your IDC unit you will need nothing more then a CAT 6 Ethernet to go between the remote station and DIC Unit. The remote station will also need a 110 power outlet to be plugged into.