



# KAPTAR®

TECHNOLOGIES

## AIRCHECK KAPTAR ATMOSPHERIC CORROSION MONITOR

The Kaptar **AirCheck Atmospheric corrosion monitor** helps to prevent damage to equipment or material produced by corrosive environments. The copper and silver sensors capable of measuring the real-time corrosion rate accomplish this. In addition, the device also measures Temperature and Relative Humidity to apply precise correction algorithms to the corrosion sensors. All this information is displayed on a 5" LCD screen with a User Interface designed for clear user experience. For more detailed information, an SD stores all the data points in a .CSV\* file that can be opened with the Kaptar Excel analyzer for more in depth study.



## SPECIFICATIONS

Variables mesured	Units	Range	Accuracy
Silver corrosion	Angstroms (Å)	0 to 4000	<1 Å
Copper corrosion	Angstroms (Å)	0 to 4000	<1 Å
Temperature	Celsius (°C)/Fahrenheit (°F)	-40 to 105 / -40 to 221	±0.1 °C/°F
Relative Humidity	RH%	0 to 100	±1.5 %
Differential pressure	Pa	± 250	±0.5 %

"When selecting the desired Aircheck Atmospheric corrosion monitor, different options are available. From the simplest Aircheck B without internet connection, pressure sensor, or 4-20mA connectivity to a complete version Aircheck B-WCP that includes all the previously mentioned options."

Aircheck Code	SD Card	Wifi	4-20 mA	Relative Pressure Sensor
AirCheck B-WCP	X	X	X	X
AirCheck B-WP	X	X		X
AirCheck B-WC	X	X	X	
AirCheck B-CP	X		X	X
AirCheck B-P	X			X
AirCheck B-C	X		X	
AirCheck B-W	X	X		
AirCheck B	X			

## DISPLAY

It is equipped with a 5" LCD high-resolution display. Silver and copper corrosion, temperature, humidity and pressure are plotted at different time intervals. In addition, layer deposition thickness and cumulative and incremental corrosion following ISA standards are available for display.

## SENSORS

A silver and copper sensor are used at an oscillating copper frequency of 6.000.000 Hz to measure frequency deviations, with a precision smaller than 1 Hz, that translates to an equivalent corrosion measurement.

The device displays the corrosion severity level following the ISA 71.04-2013 with different range levels (G1-GX) in the main screen and as a plot.

## ALARMS

Configurable alarms for each variable are available. These alarms have a HIGH and a LOW option available for the user to set.

If one of the alarm limits is reached, then the device will automatically send an email to notify the user.

## OUTPUTS

Five analog outputs one for each variable are available. These outputs follow the 4-20mA standard for industrial environments.

SD Card stores safely all data points in a .CSV\* that can be easily removed and post processed with the Kaptar Excel analyzer. The device allows to create different storage files.

## POWER SUPPLY

Allows voltage input from 7 to 40 Vdc through a barrel jack connection port.

## DEVICE DIMENSIONS

in millimeters [inches]

