

## **FID (Flame Ionization Detector)**

### **Optimize Your Thermal Oxidizer with FID Control**

At CTB we're committed to both environmental management and operational efficiency. That's why we offer a smart solution for optimizing your Thermal Oxidizer – the FID Control.

### **Why FID Control Matters**

Traditional Thermal Oxidizers operate at a constant high temperature, which can be inefficient, particularly when the incoming concentration of VOCs (Volatile Organic Compounds) is low. Operating at high temperatures without the need can result in unnecessary fuel consumption and costs.

### **How FID Control Works**

Our FID continuously monitors the level of THC (Total Hydro Carbon) emissions. Based on real-time data, we dynamically adjust the Thermal Oxidizer's operating temperature. In doing so, the oxidizer only uses the amount of fuel required to destruct the incoming VOC concentrations effectively.

### **Benefits of FID Control**

**Fuel Efficiency:**

Our FID-controlled Thermal Oxidizers operate at the optimal temperature based on the momentary VOC concentrations entering the Thermal Oxidizer, which significantly reduces the fuel consumption.

**Emission Compliance:**

With FID control, you can reliably demonstrate that your Thermal Oxidizer operations always remain below the mandated THC emission level, contributing to both compliance and sustainability goals.

CTB offers a more efficient and environmentally friendly Thermal Oxidizer solution.