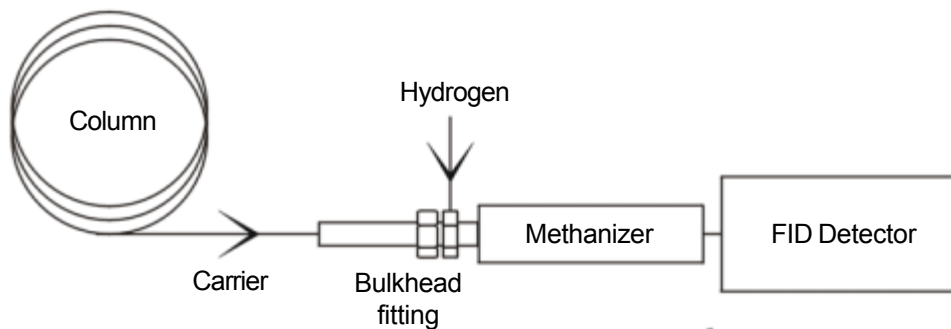
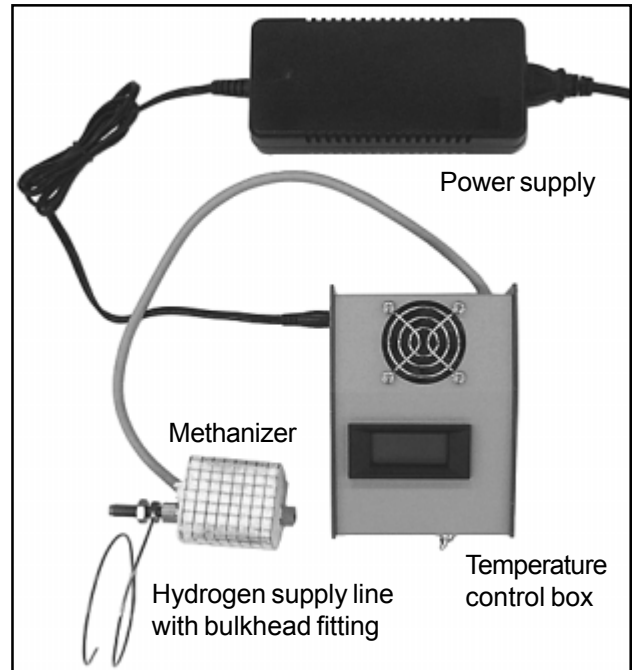


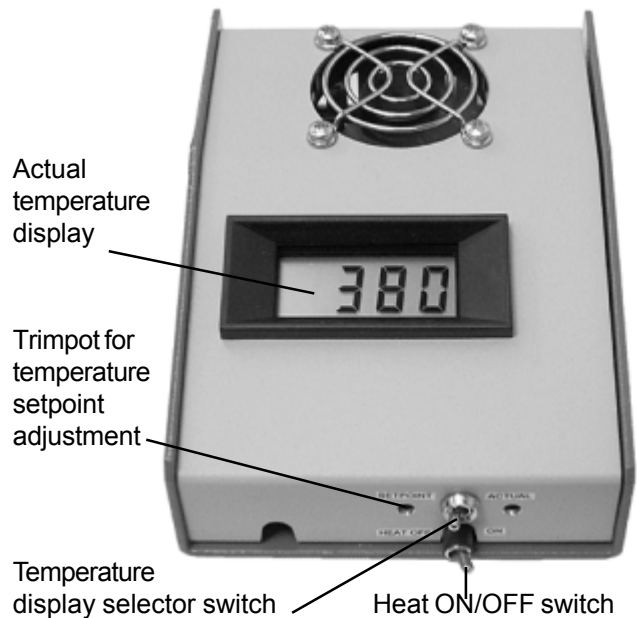
Stand-Alone Methanizer Accessory

The Methanizer accessory enables any GC equipped with a Flame Ionization Detector to detect low levels of CO and CO₂. It comes complete with its own temperature control box and universal power supply, which can operate on any of the various voltages around the world (100-240V). Equipped with swagelok type fittings, the Methanizer can be connected anywhere between the column and the FID detector.

Like the FID detector, the Methanizer requires hydrogen for operation. The required flow rate of hydrogen through the Methanizer is 25mLs/minute. This can be a combination of carrier and make-up gases. Connect your hydrogen supply to the 1/16" make-up line on the 1/8" bulkhead fitting. The bulkhead fitting may also be used to mount the Methanizer body on your instrument.



The Methanizer is packed with a nickel catalyst powder. During analysis, the Methanizer is heated to 380°C. This temperature is set at the factory, and should not normally require user adjustment. Once you turn the Methanizer ON, let it warm up for at least two minutes before verifying the temperature setpoint. When the column effluent mixes with the hydrogen carrier or FID supply and passes through the Methanizer, CO and CO₂ are converted to methane. Since the conversion of CO and CO₂ to methane occurs after the sample compounds have passed through the column, their retention times are unchanged. Hydrocarbons pass through the Methanizer unaffected.



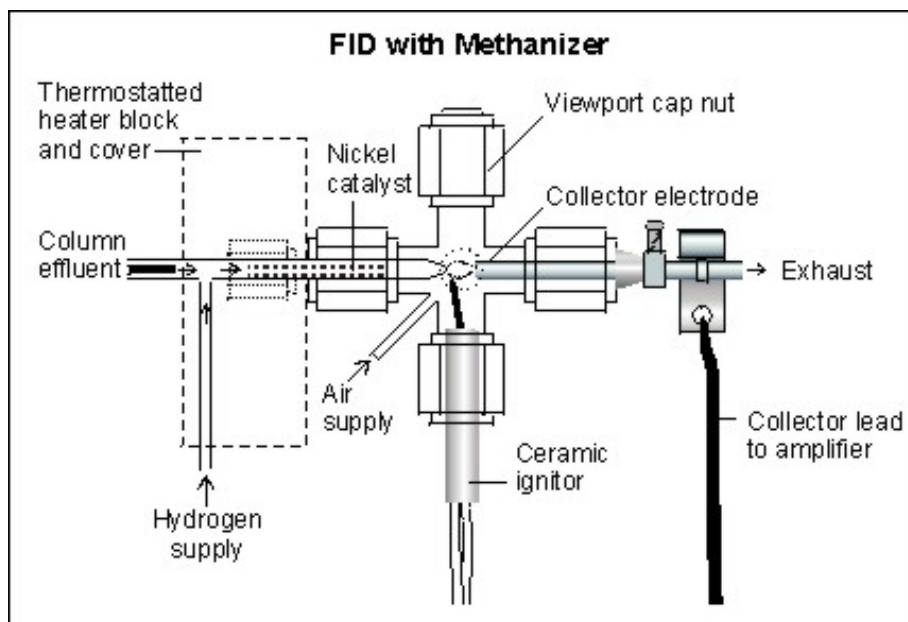
Methanizer (for low level CO and CO₂ by FID)

- Converts CO and CO₂ to Methane without changing retention times
- Enables the FID Detector to detect low levels of CO and CO₂
- Three possible configurations for your application needs
- Thermostatted to 380°C



The Methanizer option enables the [Flame Ionization Detector](#) to detect low levels of CO and CO₂. It is installed as the removable jet in a special FID detector assembly. The Methanizer is packed with a nickel catalyst powder. During analysis, the Methanizer is heated to 380°C with the FID detector body. When the column effluent mixes with the FID hydrogen supply and passes through the Methanizer, CO and CO₂ are converted to methane.

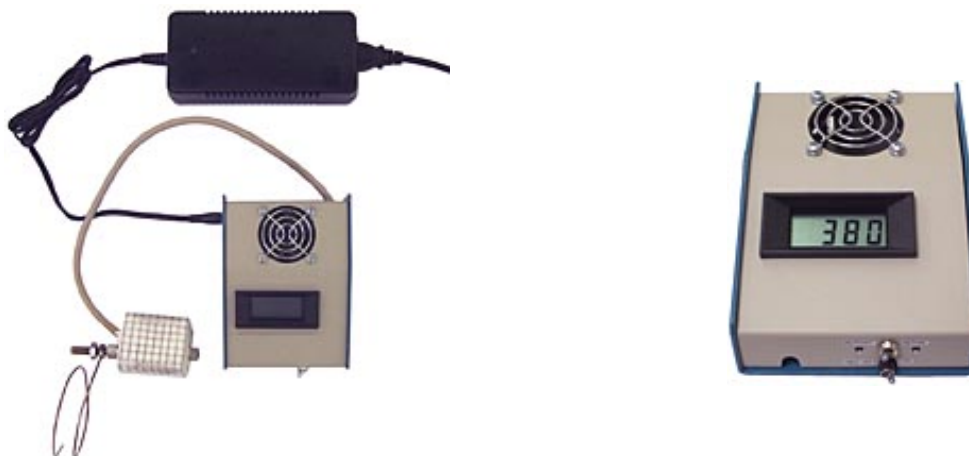
Since the conversion of CO and CO₂ to methane occurs after the sample compounds have passed through the column, their retention times are unchanged. Hydrocarbons pass through the Methanizer unaffected.



The special Methanizer FID detector assembly operates like the regular SRI [FID detector](#), except that the FID temperature must be set to 380°C. Due to the chemical relationship between nickel and sulfur, the Methanizer can be poisoned by large quantities of sulfur gas.

The Methanizer accessory is available in three configurations:

1. Built into the FID detector.
2. Built into the valve oven ducts on the side of an 8610 GC (a valve oven must also be ordered; see price list below).
3. As a stand alone unit for use with any FID detector.



The 510 Methanizer Kit is a stand alone accessory for use with any FID detector.

8680-0082	Methanizer Jet installed in special FID detector body
8680-1082	Replacement FID detector Methanizer Jet
8680-0081	Methanizer accessory built into GC valve oven
8690-0088	Heated, thermostatted valve oven mounted on an 8610C GC
8680-1081	Replacement Methanizer tube
0510-0081	510 stand alone Methanizer Kit for use with any FID
0510-1081	510 Methanizer replacement tube
