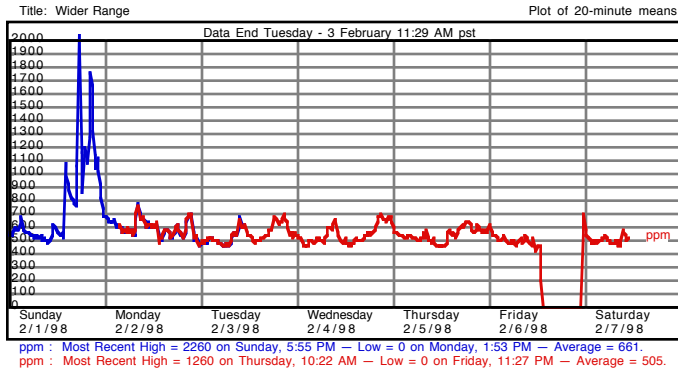


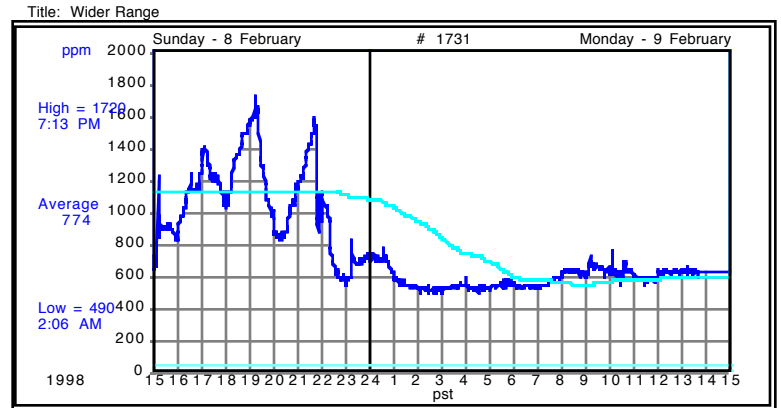
langan

CO<sub>2</sub>

carbon dioxide  
measurers



A week showing CO<sub>2</sub>, with peaks of occasional high levels and with data off.



Minute-by-minute CO<sub>2</sub>, with a running 8-hour average.

**Langan Products, Inc., 2660 California Street, San Francisco, CA 94115 USA (415) 567-8089 (voice/fax)  
email: sales@langan.net**

### Specifications

Range**	CO <sub>2</sub> Sensor:	0 to 4000 ppm
	Temperature:	0 to 128 °F (-18 to 53 °C)
Resolution:		5 ppm to 20 ppm 0.5 °F, 0.3 °C (8-bit, 5 mV)
Accuracy:		(CO <sub>2</sub> ) greater of ±5% reading or ±50 ppm (temperature) ± 1°F
Size:		about 6 by 8 by 6 in (15 by 20 by 15 cm)
Weight:		about 5 pounds (2 kg), includes batteries
Interfaces:	Power connection uses a coaxial power plug from batteries.	Data are transferred using a phone-handset plug to 8-pin DIN (Macintosh) or 9-pin D (IBM). Sensor connects by screws to a removable plug. LED flashes for power-on and data transfer.
Electrical:	6 VDC; 20 mA, average; 100 mA, peak (normal usage)	separate AC transformer or AA cells can support CO <sub>2</sub>
Software Settings:	(MacOS Sense-Your-World! Software included)	(MSDOS IBearM Reader Software optional)
Sampling Frequency:		128 hertz, preset mode 20 hertz, real time mode one second or longer, continuous mode
Storage Capacity:		up to 10,240 samples (dual CO +T)
Collection Capacity:		from hours to months Stores three user-created texts, time zone and date. Save as compact files, ASCII text, or PICT graphics.
Gas Law Correction:	elevation adjustment, temperature compensation	
Calibration:		uses bottled span gas; lasts for years connection for applying CO <sub>2</sub> is supplied

The Langan CO<sub>2</sub> Measurer is a complete package that combines long-life, highly reliable, electrooptical sensors produced by Englehard Corporation with the compact and field-tested portable *DataBear<sup>TM</sup> Measurer* data acquisition system. Calendar timing and signal-interface electronics optimize the combination. Software is included to read and reset the instrument, to display the results and to translate into almost any computer format. Batteries and interface cables are included. This portable instrument can be used on receipt!

The Langan CO<sub>2</sub> Measurer is available in FOUR configurations:

- A portable, long-term CO<sub>2</sub> + Temperature Model T16,
- This configuration with CO Sensor added, Model L56,
- This configuration with CO and humidity, L76,
- A data-acquisition interface with the Englehard, L16.

All include temperature sensors, as well Readout software is included for either MS-DOS or MacOS Computers.

The CO<sub>2</sub> Monitor itself is a stand-alone, portable, IR-based, handheld instrument that is included within the rugged enclosure provided in the Langan configuration. It can be used independently, without attachment to the data acquisition capability, to gather momentary readings. When attached to the data acquisition hardware, it becomes a CO<sub>2</sub> instrument with memory and with added sensor capabilities for indoor air quality observations, if these are selected.

The Model-116 series provide a unique freedom to gather CO<sub>2</sub> data anywhere!

Ask about our other Miniature Measurers to gather data for weeks, months, years: Dual Hygrothermograph(± Barometric Pressure); Agricultural Measuring Station; Solar Radiation Measurer; Sulfur Dioxide Research Measurer; Carbon Monoxide Measurer

<http://www.langan.net/lpi>

