

The Streetbox indicative pollution monitor has a wide range of configurations, including measurement channels, power supply and communications. The main consideration when selecting a Streetbox configuration is the trade off between power supply and channels to be measured. Whilst a battery powered unit is easier to install, the channel configuration is limited by the available current capacity. In practice, this means that certain parameters such as SO2 and PM10 can only be measured on a mains powered unit.

To configure a Streetbox, first select the measurement channels from the list specified. This selection itself may limit what power options are available, but if possible, choose the desired power supply next. Again, the configuration may limit further selection, but a further choice may be the type of sampling required, either pumped or diffusion.

Some notes on the different available options are to be found at the bottom of this page.

Sampling	Power	Comms	Ch1	Ch2	Ch3	Ch4
Diffusion <input type="checkbox"/>	19Ah internal <input type="checkbox"/>	Radio <input checked="" type="checkbox"/>	NO2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	or					
	35Ah internal <input type="checkbox"/>	RS232 <input type="checkbox"/>	CO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	or	or				
	85 - 264VAC <input type="checkbox"/>	GSM <input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	or					
	12VDC external <input type="checkbox"/>		H2S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Sound	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			WS/WD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Sampling	Power	Comms	Ch1	Ch2	Ch3	Ch4
Pumped <input type="checkbox"/>	85 - 264VAC <input type="checkbox"/>	Radio <input checked="" type="checkbox"/>	NO2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	or					
	12VDC external <input type="checkbox"/>	RS232 <input type="checkbox"/>	CO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		or				
		GSM <input type="checkbox"/>	SO2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			NO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			H2S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			PM10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			WS/WD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Notes on the options

- Diffusion sampling configurations do not have an internal pump. Samples are drawn into the sensors by natural air movement. When a pump is fitted, power must be either mains or external DC.
- The internal 19Ah or 35Ah batteries are non-rechargeable units. The 12VDC external option allows for an external rechargeable lead acid. Battery lifetime depends on channel configuration.
- Radio module is standard in the Streetbox and requires a Radio Base Station (part number XA3811) to communicate. A GSM link may also be fitted to allow data collection using the mobile phone network.
- Channels are allocated as indicated in the table. Note that there are certain restrictions in the allowed configurations e.g.:

- => SO2 requires pumped sampling (and therefore mains or external DC power)
- => PM10 requires mains power or external DC as current draw is too high for batteries
- => Sound monitor cannot be used with pumped sample (to avoid audio interference)