

SELECT Dosing System

pH Monitor

Technical data

There are many situations where maintaining pH within a defined range is critical to process operations. Knowing that the pH is slightly out of range means that remedial action can be taken.

The Select pH Monitor is connected to a pH electrode and is powered by a 12V DC power supply. Any pH electrode can be used as this can be calibrated via an on-screen menu option on the pH Monitor.

Under the Options menu, a maximum and minimum pH level can be chosen. As the pH Monitor is supplied with a strobe light, there is an option to activate this warning method within the Options section.

In use, the display screen shows the current detected pH value as well as the minimum and maximum pH values chosen.

As soon as a pH value is detected that is outside the chosen range, the Alarm strobe light (blue) will be activated as will an audible siren if this is fitted. A message will be shown on the screen to indicate if the detected pH value is above or below the desired range.

With the strobe Alarm light illuminated, it is possible for the process control personnel to quickly see a process line in a plant that needs attention.

A feature of the pH Monitor is that both Direct and Average readings of pH can be taken. If Direct is selected, instantaneous readings are used. If the Average function is selected, the value used for display and Alarm purposes is the average value of the readings taken each second over the last 10 samples. If it is known that there are likely to be small, uninteresting fluctuations in the pH level, then the Average function should be selected.

The pH Monitor is pre-programmed to be connectable to the Tx communications system (also manufactured by Dosing Solutions Ltd). Once connected, Tx can raise an Alarm by SMS to nominated personnel should the pH range be exceeded, and also send the hourly pH values to a computer-based database via the Tx Terminal modem. This data can act as a permanent record for conformance purposes.



Maintaining the correct pH (and ORP) levels by adding chemicals by hand can be difficult. These levels constantly change owing to the chemicals working within the process. Dosing Solutions Ltd has developed the Select-648 pH/ORP peristaltic dosing pump.

This pump is connected to electrodes that detect both pH and ORP in the process tank and dose the chemical required to bring values to within the accepted levels. Once the target value is seen the pump will stop working but continue its monitoring function until called into action again.

Specification

Power:	12V DC, 1.5A
Strobe light (blue)	Supplied
Tx connectivity	Allowed
Max pH limit	13
Minimum pH limit	1
Options	Select maximum Select minimum Allow Alarm Direct or Average reading

See also data sheets on:

- The Select 648 pH/ORP doser
- TX

These data sheets can be found on www.dosingsolutions.com