Overview on dipswitch settings for various versions of **Protect 375**.
17/11-2004
/LMJ

This overview only applies to **Protect 375** type smoke generators.
This overview Applies to software versions up to and including **version 7.00.**
The overview refers to the software version stated on the label located on the Circuit Board heat Sink.
Machines lacking this label have software, older than version 6.05, and are not covered by this overview.

Software version 6.05 was introduced on 14 April 2003 from serial number 55166.
The Possibility of reversing the system fault relay on dip-1 is introduced.
Improved method of charging batteries introduced.
A number of general improvements in software introduced.

Software version 6.07 was introduced on 19 June 2003 from serial number 57259.
Change in the software's EMC properties in connection with upgrade to EN50130-4.
No changes in dipswitch settings.

Software version 7.00 was introduced on 6 August 2004 from serial number 61938.
The possibility of individually selecting the operation of trigger input's introduced.
Optional Fire Alarm Delay introduced.
30-second division on the smoke time introduced.

The indicated serial numbers should be regarded as guidelines only, as the circuit board and with it the software version, may have been replaced since the date of production, for instance during repairs.

Dip-1   Dip-1 inverts the mode of operation for the system fault relay when set to the ON position.
            Dip-1 should always be set to the ON position.
            Introduced from software version 6.05.
            Dip-1 had no function prior to this software version.

Dip-2   Mode of operation for the **ARM** input.
            When Dip-2 is set to the ON position, ARM is activated when 12V is applied to the input.
            When Dip-2 is set to the OFF-position, ARM is activated when 12V is removed from the input.
            Introduced from software version 7.00.
            Dip-2 had no function prior to this software version.

Dip-3   Mode of operation for the **PRIMARY TRIGGER** input.
            When Dip-3 is set to the ON position, the Primary Trigger is activated when 12V is applied to the input.
            When Dip-3 is set to the OFF position, the Primary Trigger is activated when 12V is removed from the input.
            Introduced from software version 7.00.
            Dip-3 had no function prior to this software version.

Dip-4   **Fire Alarm Delay** Enable.
             If Dip-4 is set to the ON position a 5-second delay in smoke release is enabled.
             For installations that do not need to operate in connection with fire alarm systems Dip-4
             must be set to the OFF position thus disabling the delay.
             Introduced from software version 7.00.
             Dip-4 had no function prior to this software version.

Dip-5, Dip-6, Dip-7, and Dip-8 select the **smoke time**.
             Dip-5, 30-second division.
             Dip-6, 1-minute division.
             Dip-7, 2-minute division.
             Dip-8, 4-minute division.
             When one of these is set to the ON position, the related time is added to the smoke time.
             A smoke time must be selected to ensure proper operation of the smoke generator.
             30-second division (Dip-5) has been introduced from software version 7.00.
             Dip-5 had no function prior to this software version.

Dip-9   **Automatic reset** of certain system errors.
             <u>Dip-9 should always be set to the ON position.</u>
             The OFF position is only intended for specific troubleshooting.
             This applies to all labelled software versions.

Dip-10   Mode of operation for the **SECONDARY TRIGGER** input.
             When Dip-10 is set to the ON position, the Secondary Trigger is activated when 12V is
             applied to the input.
             When Dip-10 is set to the OFF position, the Secondary Trigger is activated when 12V is
             removed from the input.
             The above has been introduced from software version 7.00.
             Prior to this version dipswitch 10 alone select the mode of operation of ARM,
             Primary trigger and the Secondary trigger.
             When Dip-10 is set to the ON position all the above-mentioned inputs are activated
             when 12V is removed from the inputs.
             When Dip-10 is set to the OFF position the above-mentioned inputs are activated
             when 12V is applied to the inputs.

Overview on dipswitch settings for various versions of
Protect 950 and Protect 950-XP. (rev 2.0)
7/12-2004
/LMJ

This overview only applies to Protect 950 and 950-XP type smoke generators.
This overview applies to software versions up to and including **version 2.10.**
The overview refers to the software version stated on the label located on the Circuit Board heat Sink.

Software version 1.00 was introduced on 7 August 2003 from serial number 210001.
This is the first software version for Protect 950.
Only very few copies of the software have been released.

Software version 1.10 was introduced on 21 August 2003 from serial number 210006.
Minor change in the fluid alarm system.
Change in the software's EMC properties in connection with upgrade to EN50130-4.

Software version 2.00 was introduced on 22 April 2004 from serial number 211872.
Transition to 950-XP generator.
Performance increased by 50% from 950 m3 to 1,500 m3.
Maximum smoke time changed from 40 seconds to 60 seconds.
Optional Fire Alarm Delay on Dip-7 introduced.
A number of minor adjustments have been made.

Software version 2.10-XP was introduced on 22 July 2004 from serial number 212355.
Optional soft start feature introduced on Dip-8.

Please note that non-XP generators cannot be upgraded to XP software due to major differences in the mechanical construction .

The indicated serial numbers should be regarded as guidelines only, as the circuit board and with it the software version, may have been replaced since the date of production, for instance during repairs.

Dipswitches 1, 2 and 3 select the smoke time and thus the smoke output volume.

> **For versions up to and including software version 1.20 the smoke time can be set at 5- second intervals (5, 10, 15, 20, 25, and 30 seconds)**
> **Dip-1, 5-second division**
> **Dip-2, 10-second division**
> **Dip-3, 20-second division**
> **On software version 2.0-XP and higher, the smoke time can be set at 10-second intervals (10, 20, 30, 40, 50, and 60 seconds)**
> **Dip-1, 10-second division**
> **Dip-2, 20-second division**
> **Dip-3, 30-second division**

Dip-4   Mode of operation for the **ARM** input.
             When Dip-4 is set to the ON position, ARM is activated when 12V is applied to the input.
             When Dip-4 is set to the OFF position, ARM is activated when 12V is removed from the input
             This applies to all labelled software versions.

Dip-5   Mode of operation for the **PRIMARY TRIGGER** input.
             When Dip-5 is set to the ON position, the Primary Trigger is activated when 12V is applied to the input.
             When Dip-5 is set to the OFF position, the Primary Trigger is activated when 12V is removed from the input.
             This applies to all labelled software versions.

Dip-6   Mode of operation for the **SECONDARY TRIGGER** input.
             When Dip-6 is set to the ON position, the Secondary Trigger is activated when 12V is applied to the input.
             When Dip-6 is set to the OFF position, the Secondary Trigger is activated when 12V is removed from the input.
             This applies to all labelled software versions.

Dip-7   **Fire Alarm Delay** enable.
             If Dip-7 is set to the ON position a 5-second delay in smoke release is enabled.
             For installations that do not need to operate in connection with fire alarm systems Dip-4 must be set to the OFF position thus disabling the delay.
             Introduced from software version 2.00-XP.
             Dip-7 had no function prior to this software version.

Dip-8   **Soft Start** enable.
             If minimal spatter of smoke fluid during the initial part of the smoke release is essential, the soft start feature should be enabled .
             This is done by setting Dip-8 to the OFF position.
             For installations where spatter of fluid in the immediate vicinity of the smoke generator have less importance Dip-8 should be set to the ON position where by the fastest possible start-up of smoke production is chosen.
             Introduced from software version 2.10-XP
             Dip-8 had no function prior to this software version.

Dip-9   Dip-9 has no function.

Dip-10   Dip-10 has no function.