



# Optidrive Applications Support Library

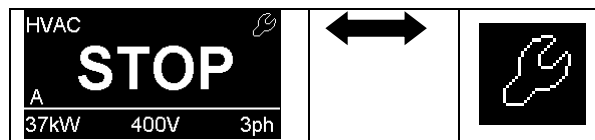
<b>Application Note</b>	<b>AN-ODV-2-074</b>
<b>Title</b>	<b>Using the Maintenance Timer</b>
<b>Related Products</b>	<b>Optidrive HVAC</b>
<b>Level</b> <b>1</b>	1 – Fundamental - No previous experience necessary 2 – Basic – Some Basic drives knowledge recommended 3 – Advanced – Some Basic drives knowledge required 4 – Expert – Good experience in topic of subject matter recommended

## Overview

The Optidrive HVAC has a maintenance interval timer function with visible display indication and configurable output points to allow the programmer to set-up routine maintenance schedules / intervals for the machine / system and to indicate maintenance due to the machine operator. The maintenance interval is calculated from the 'Drive hours run clock' and is hence an indication of the operational use of the drive system rather than a basic calendar based timer function.

## Operational Overview:

The maintenance interval is enabled and configured by parameter P6-24, Service Interval Timer. When P6-24 is set to 0 the maintenance interval timer is disabled. The maintenance interval (P6-24) is set in hours between 1 and 60000 (default 5000 hours). Access to parameter menu 6 is permitted only when the advanced security level password is entered into P1-14 (default password 201). The maintenance interval timer is initiated when a valid value is entered into P6-24. The time remaining until maintenance becomes due is stored and displayed in parameter P0-22 (Time Left to Next service).



When the maintenance interval expires (P0-22 reaches 0) the Optidrive HVAC can indicate maintenance due on the machine in the following ways:

- The maintenance symbol is automatically displayed on the OLED display (alternating with drive communications address in top right corner).
- One of the drive relay outputs can be configured for indication of maintenance due,
- A warning bit in the drive communications status words is set (see associated communications guide).

The following parameters are used to configure the relay drive outputs to represent Service Due.

Parameter Number	Parameter Description	Terminal	Value set
P2-15	Relay output 1 function select	14 / 15	10
P2-18	Relay output 2 function select	16 / 17 / 18	10

When the maintenance interval has expired and the scheduled service has been completed the service interval timer is reset by setting P6-25 = 1, Reset Service Indicator. The timer for the next service interval starts from the point at which the previous indication was reset. Advanced security access is required (default P1-14 = 201) in order to access the Reset Service Indicator parameter.

## Quick Setup Overview:

### Maintenance Interval Set-up

- Set Parameter P1-14 = 201 to allow access to advanced parameters in menu 6
- Set the number of hours between services in parameter P6-24, Service Timer Interval (Default 5000).
- If a drive output is required to indicate that maintenance is due then configure the output based on the table above (P2-15 or P2-18 = 10).

### Maintenance Interval Reset

- Set Parameter P1-14 = 201 to allow access to advanced parameters in menu 6
- Set parameter P6-25 = 1, Reset Service Indicator to reset the Maintenance Timer Interval.

#### Appendix:

Revision History			
Issue	Comments	Author	Date
01	Document Creation	KB	28/04/14