

# Display Menu — 7 Screens

## Screen 1 — Tank Pressure

**To Access the next Menu Display — Press the up menu once to go to the next screen.**

**Screen Number**

**Pressure Symbol**

**Shows the Actual Tank Pressure in psi.  
Example: 135 psi.**

## Screen 2 — Oil Change Time Remaining

**To Access the next Menu Display — Press the up menu once to go to the next screen.**

**Screen Number**

**Time Symbol**

**Shows the Oil Change Time remaining in hours.**

## Screen 3 — Oil Change Month/Day Remaining

To Access the next Menu Display — Press the up menu once to go to the next screen.

Screen Number

Shows the Oil Change Month/Day remaining.  
Example: 3rd Month / 22nd Day.

## Screen 4 — 7 Days a Week On/Off Scheduler Start Time

To Access the next Menu Display — Press the up menu once to go to the next screen.

Screen Number

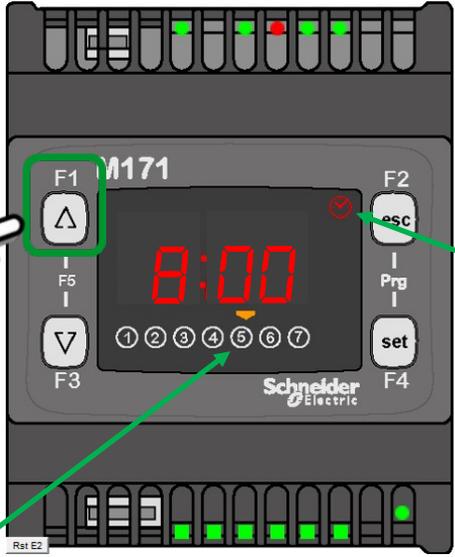
Time Symbol

Shows the Current Start Time of the 7 Days a Week On/Off Scheduler.  
Example: 8:00 am

## End Time

To Access the next Menu Display — Press the up menu once to go to the next screen.

Screen Number



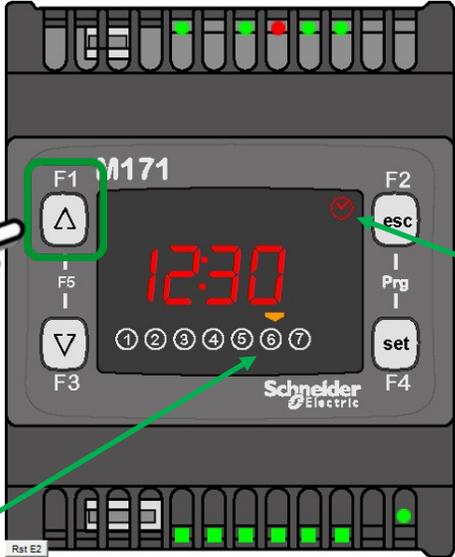
Time Symbol

Shows the Current End Time of the 7 Days a Week On/Off Scheduler. Example: 8:00 am

## Screen 6 — Current Time of Day

To Access the next Menu Display — Press the up menu once to go to the next screen.

Screen Number



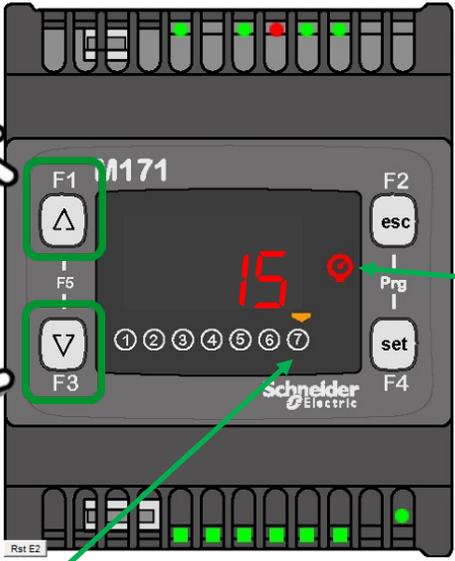
Time Symbol

Shows the Current Time of the Day. Example: 12:30 pm

**To Access the next Menu Display — Press the up menu once to go to the next screen.**

**To Access the previous Menu Display — Press the down menu once to go to the previous screen.**

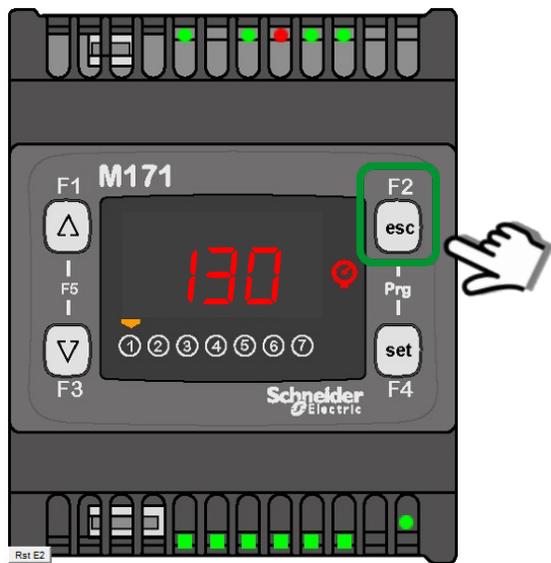
**Screen Number**



**Pressure Symbol**

**Shows the Current Oil Pressure in psi.  
Example: 15 psi**

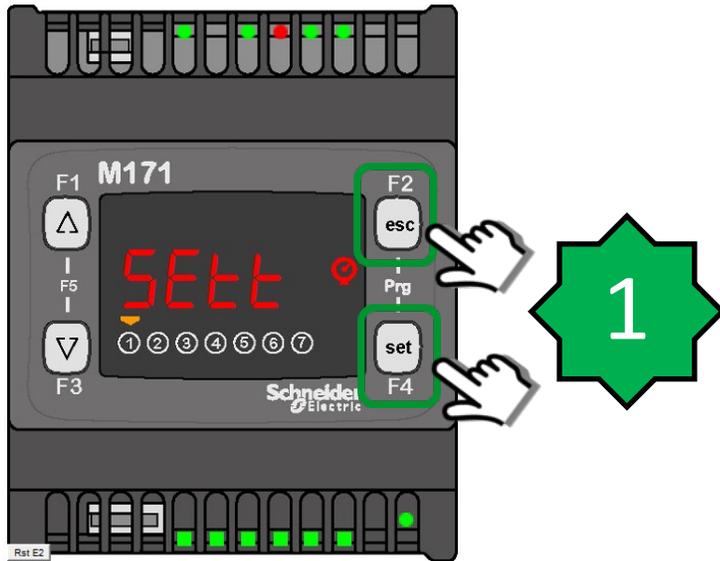
## Entering the “Sett” Setting Menu



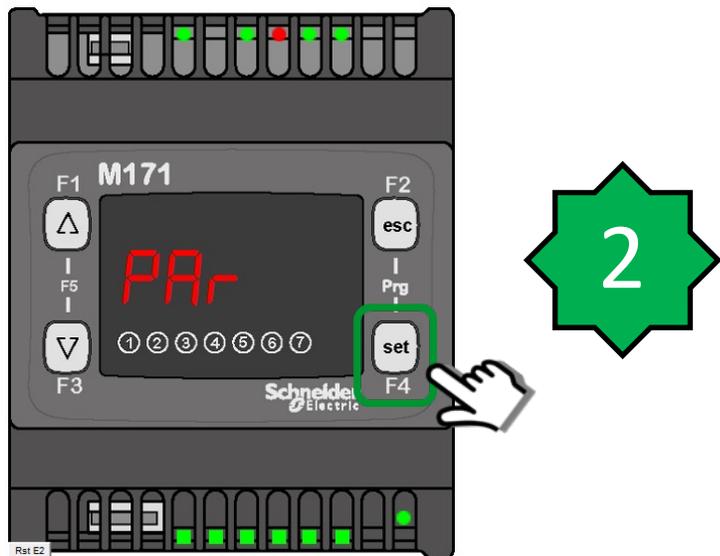
**To Access the Setting  
Menu Display — Press  
and hold the Esc button  
for 3 seconds.**

**Then the “Sett” screen  
will be displayed.**

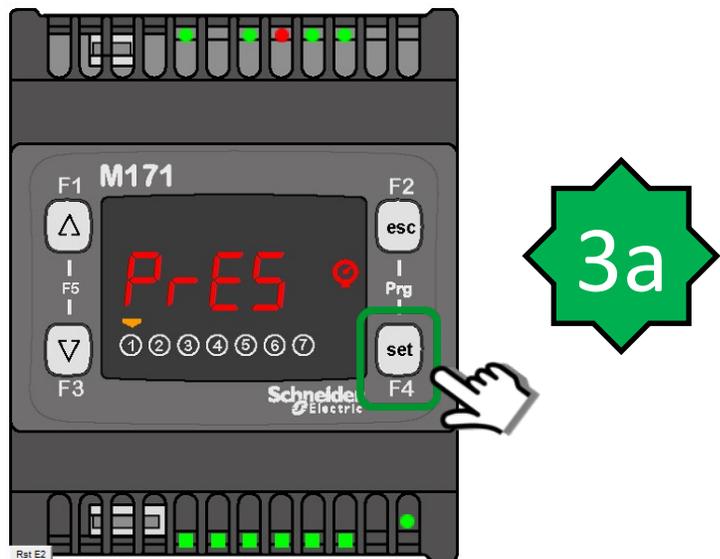
# Menu Program — How to Access



To Access the Preset Program Menu from the “SEtT” Display screen. Press “esc” and “set” buttons simultaneously on the plc.

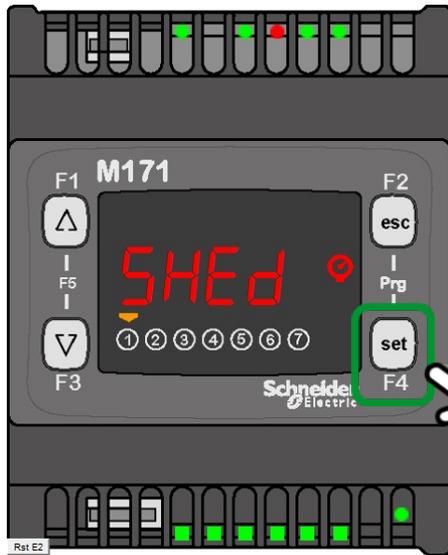


Display should read “Par” (parameter). Press “set” button once to switch to the PrES (Preset Parameters) screen.



Display should read “PrES” (Preset Parameters Menu). Press “set” button once to switch in to this Menu.

Or Up or Down arrow to select the “SHEd” Week Schedule Menu. See 3b.



3b

Display should read "PrES" Preset Parameters Menu. Press Up or Down arrow to select the "SHEd" Weekly Schedule Menu. Press set button to go into this Menu.

Or Up or Down arrow to select the "PrES" Preset Parameters Menu.

See 3a.

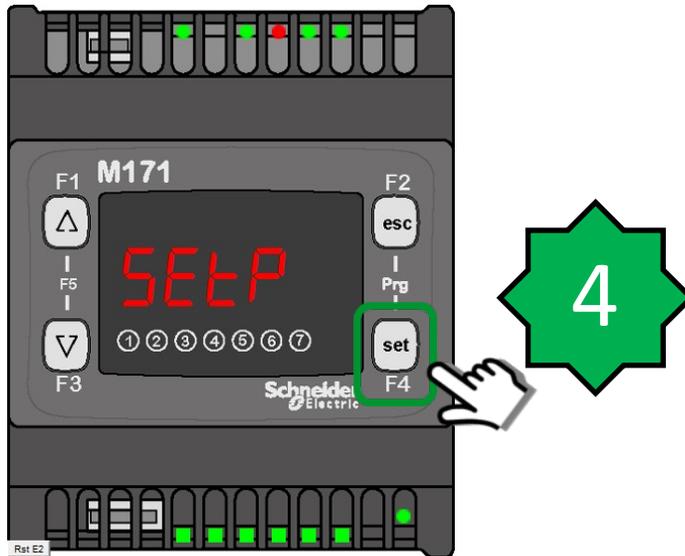
See Section

Menu SHed — Changing the Schedule Parameters

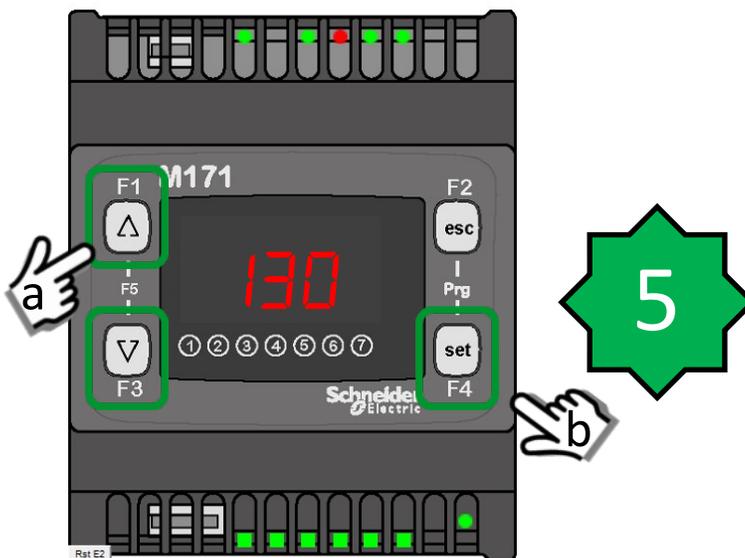
For the modification and explanation of these parameters.

# Menu PrES — Changing the Preset Parameters

## SEtP — Tank Pressure Setpoint

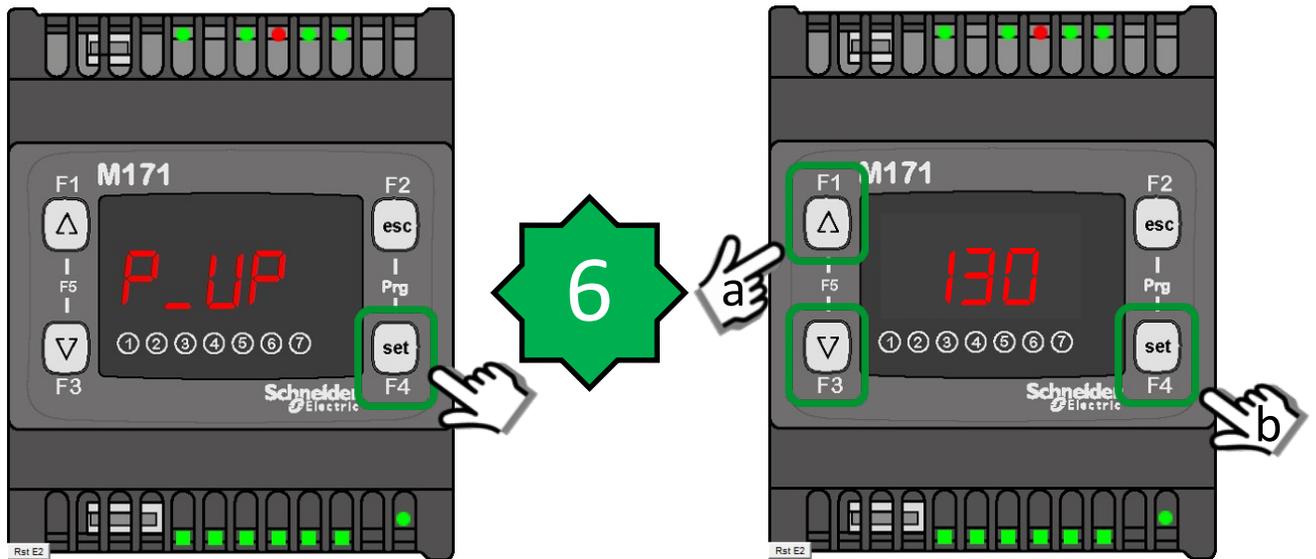


“SEtP” (Tank Pressure Setpoint) is the first configurable parameter. This is the nominal pressure you want the tank to be set to. Press “set” to modify this value. Or  to change to the next parameter.



Factory setting for “SEtP” (Tank Pressure Setpoint) is 130 psi, (a) but can be modified from 90 to 165 psi. Use the Up and Down arrows to modify this value and (b) then press the “set” button to confirm you change. Or press the “esc” button escape without

## P\_UP — Pressure Above Setpoint

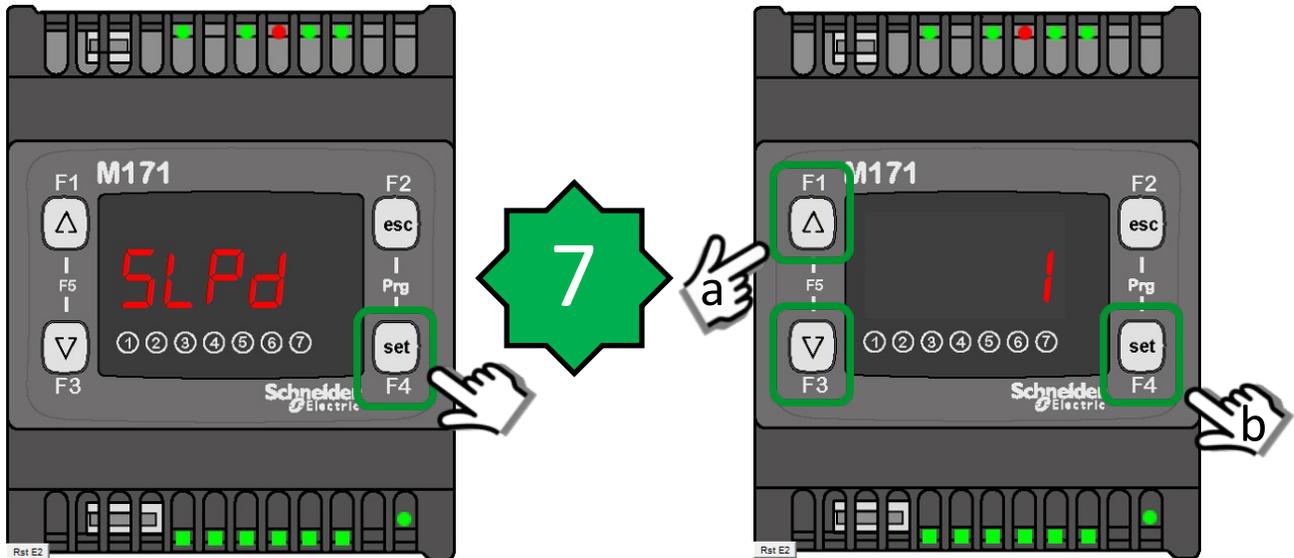


If you pressed the up arrow  again to get to the next parameter. You will see the parameter “P\_UP”. Press “set” to change it’s value. This is the incremental value of pressure above the nominal pressure that you want the tank to reach be for going into sleep mode. (Similar to cut-out pressure, but the system is always trying to achieve the nominal pressure using it’s PID loop to lower and raise the speed of the motor, so a traditional cut-out of 5 to 10 psi above nominal tank pressure is not necessary. The factory setting of 3 psi is not susceptible to oscillations due to the implementation of the PID loop and the Sleep Delay “SLPD”, which we will talk about next.)

Factory setting is 3 psi, but can be modified from 3 to 10 psi. Use the Up and Down arrows (a) to modify this value and (b) then press the “set” button to confirm you change. Or press the “esc” button escape without changing.

Example: A “P\_UP” of 3 psi and a “SEtP” of 130 psi will give you a Sleep value of 133 psi.

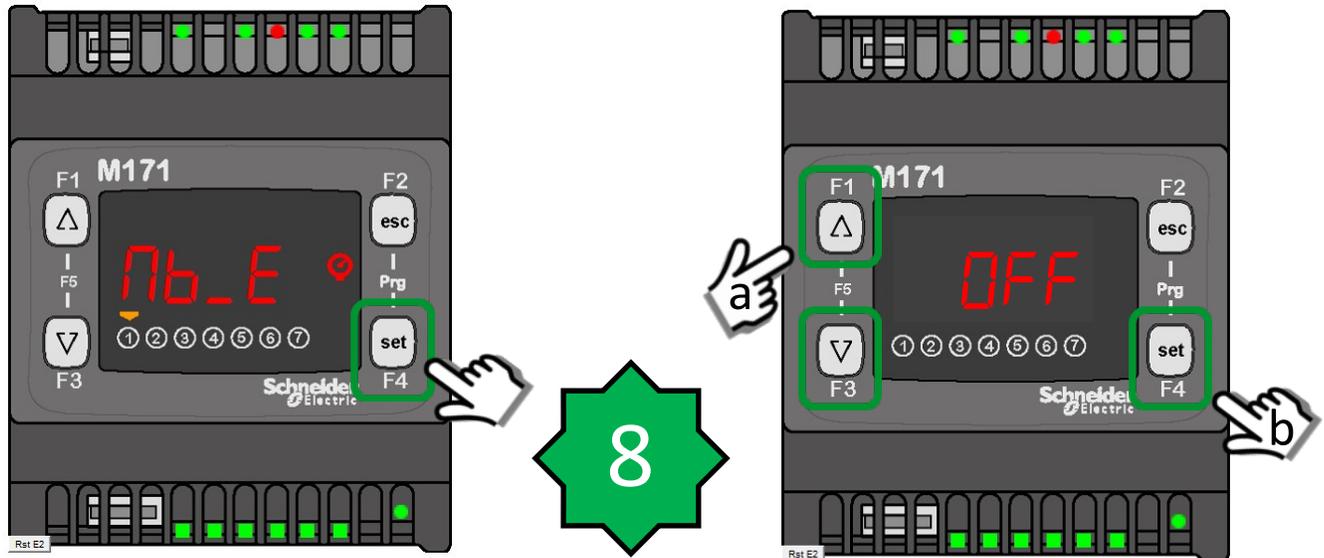
## SLPd — Sleep Delay Setpoint



If you pressed the up arrow  again to get to the next parameter. You will see the parameter “SLPd”. Press “set” to change it’s value. This is a time value to delay before entering the sleep mode.

The factory setting of 1 min, but can be modified from 1 to 999 minutes. Use the Up and Down arrows (a) to modify this value and (b) then press the “set” button to confirm you change. Or press the “esc” button escape without changing.

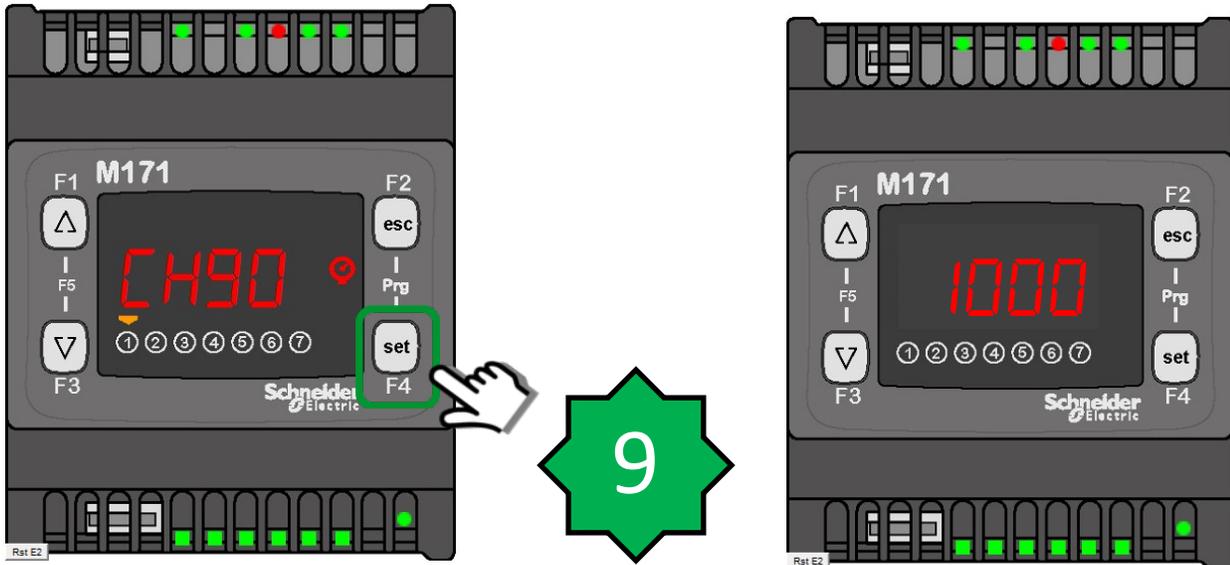
## Mb\_E — Modbus Enable



If you pressed the up arrow again to get to the next parameter. You will see the parameter "Mb\_E". Press "set" to change it's value. This is a parameter only used to program the plc. Not to be used by the user.

The factory setting of "Off", but can be modified to "On". Use the Up and Down arrows (a) to modify this value and (b) then press the "set" button to confirm you change. Or press the "esc" button escape without changing.

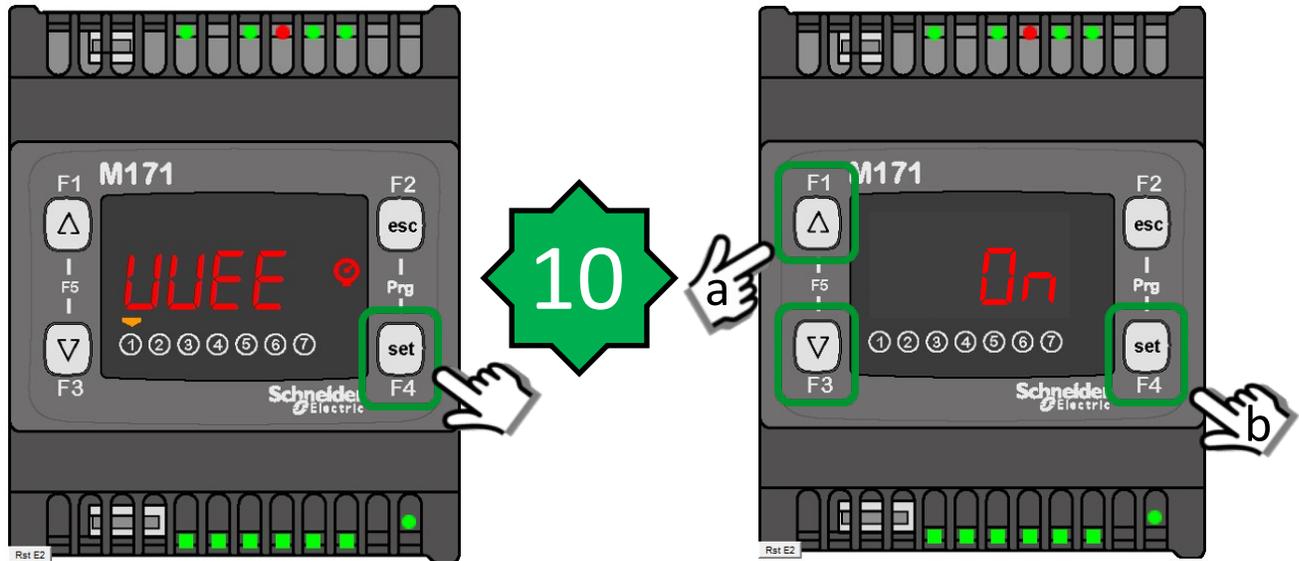
## CHgO — Change Oil Timer



If you pressed the up arrow again to get to the next parameter. You will see the parameter “CHgO”. Press “set” to see it’s value. This is a read only parameter only used to provide the setpoint. Can not be modified by the user.

The factory setting is “1000”.

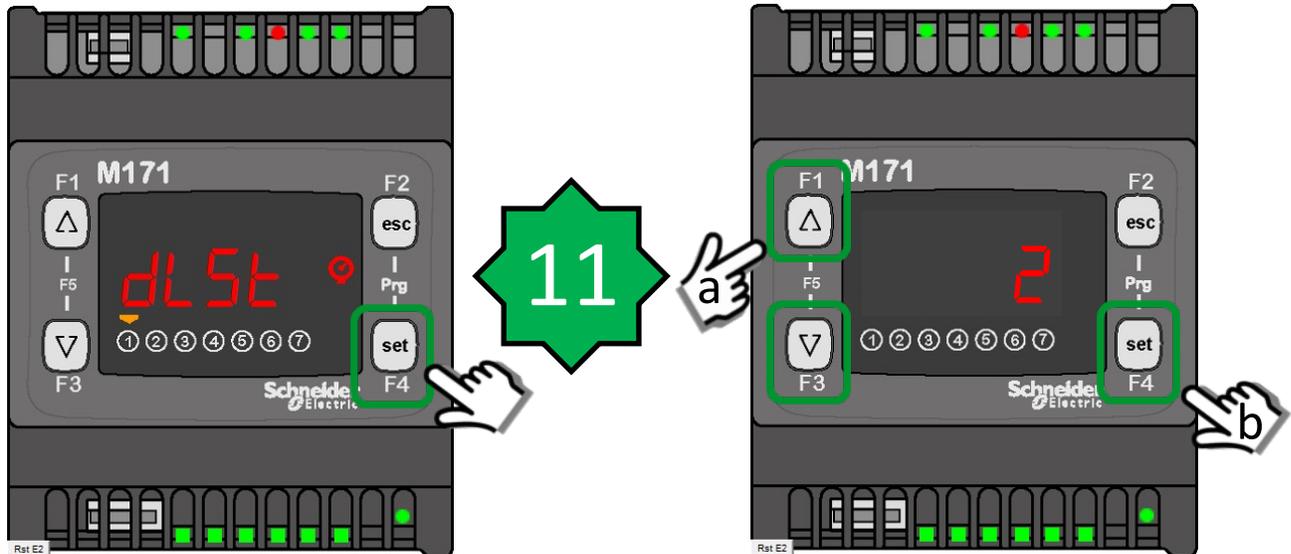
## UUEE — Weekly Schedule Enabler



If you pressed the up arrow  again to get to the next parameter. You will see the parameter “UUEE”. Press “set” to change it’s value. This is to enable the Week Scheduler. There are 3 components to the Scheduler. A Day of the Week Enable, One Start Time per day and One End Time per day. When this is not set to “On”, you will manually have to Start and Stop the Compressor from the keypad of the Drive.

The factory setting is “Off”, but can be modified to “On”. Use the Up and Down arrows (a) to modify this value and (b) then press the “set” button to confirm you change. Or press the “esc” button escape without changing.

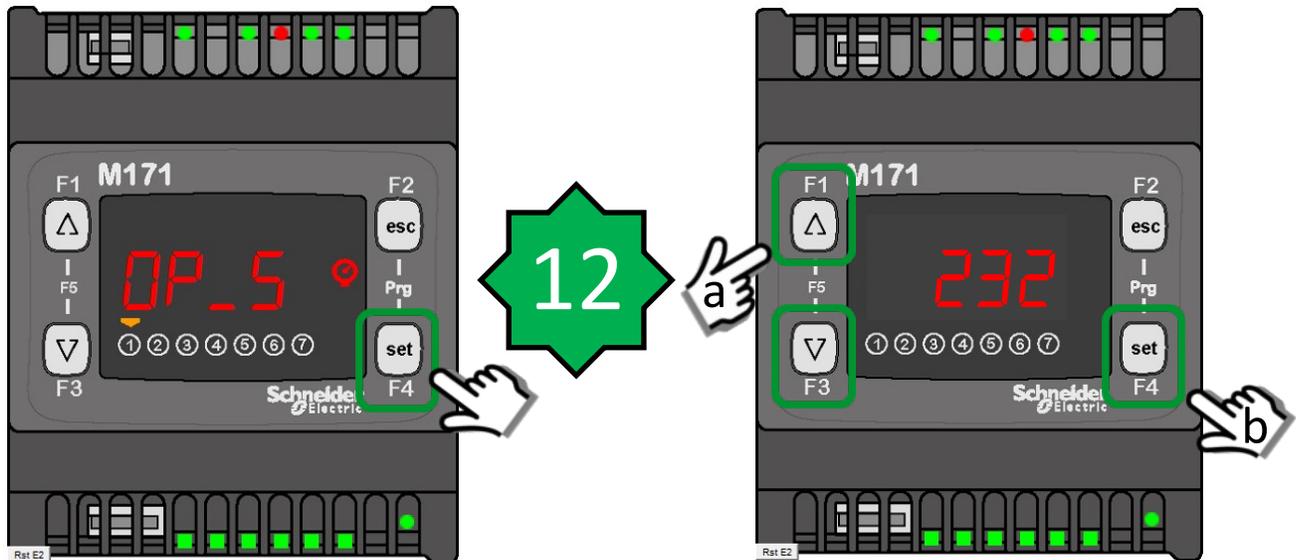
## dLSt — Daylight Saving Time



If you pressed the up arrow  again to get to the next parameter. You will see the parameter “dLSt”. Press “set” to change it’s value. This is to enable Daylight Savings Time on the compressor. There are 3 settings to this parameter. The default setting is “2” which means that Daylight Savings Time is Enabled. This setting is used for both US and Canada. Daylight is started (turned forward by 1 hour) on the 2nd Sunday in March and ends (turned backwards by 1 hour) on the 1st Sunday in November. The system time will be changed on the schedule listed above. The value can be changed to “0”, which means that Daylight Saving Time is not enabled. It can also be set to “1”, which is Daylight Savings Time as it is established in Europe.

Use the Up and Down arrows (a) to modify this value and (b) then press the “set” button to confirm you change. Or press the “esc” button escape without changing.

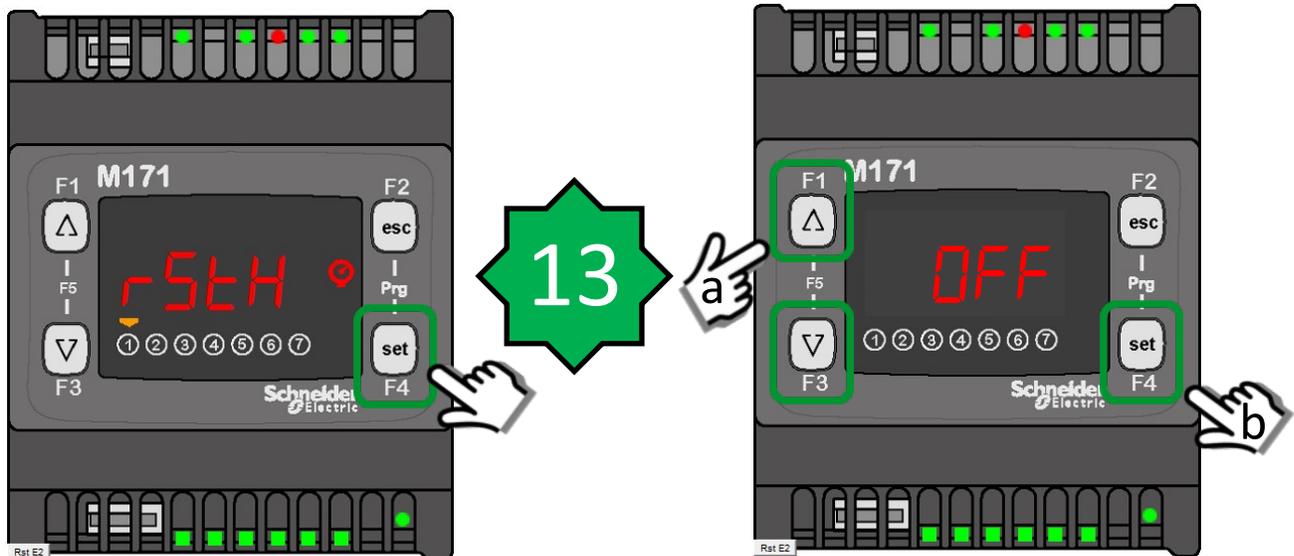
## OP\_5 — Oil Pressure Max Scale



If you pressed the up arrow  again to get to the next parameter. You will see the parameter “OP\_5”. Press “set” to change it’s value. This parameter is to set the Oil Pressure Max Scale value. This value is the max pressure that the transducer can measure. The default setting is “232” which means that the maximum value that the sensor can measure is 232 psi. The value can be changed from “1” to “232”, which used switch to a sensor with a different scale.

Use the Up and Down arrows (a) to modify this value and (b) then press the “set” button to confirm you change. Or press the “esc” button escape without changing.

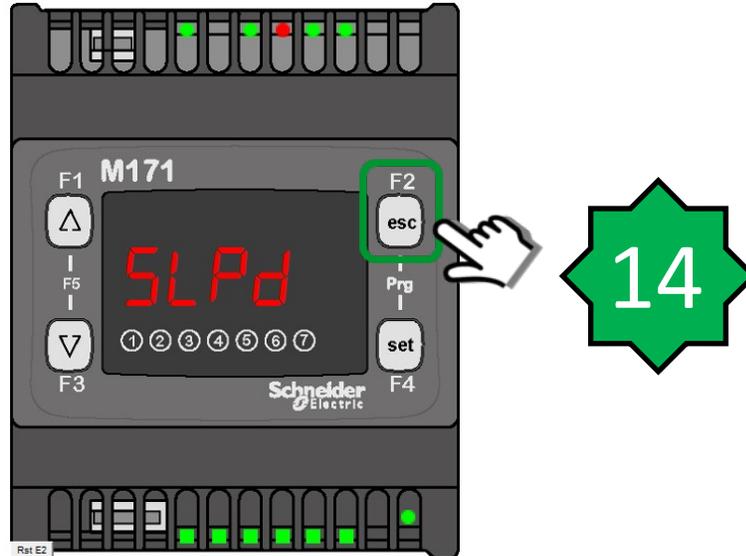
## rStH — Reset Oil Change Timer



If you pressed the up arrow  again to get to the next parameter. You will see the parameter “rStH”. Press “set” to change it’s value. This parameter is to reset the Oil Change Timer. When the Display reads “CHgO” it is time to change the oil in the piston unit to maintain the warranty, which means that 1000 hours or six months has elapsed. The value can be reset by changing the value from “OFF” to “On” and pressing the “set” button. This will reset the Change Oil Timer back to 1000 hours and reset the Change Oil Date Timer to six months from the date it is reset. After the values have been reset, the value of “rStH” will automatically be reset to “OFF”.

Use the Up and Down arrows (a) to modify this value and (b) then press the “set” button to confirm you change. Or press the “esc” button escape without changing.

## Returning to Main Pressure Display

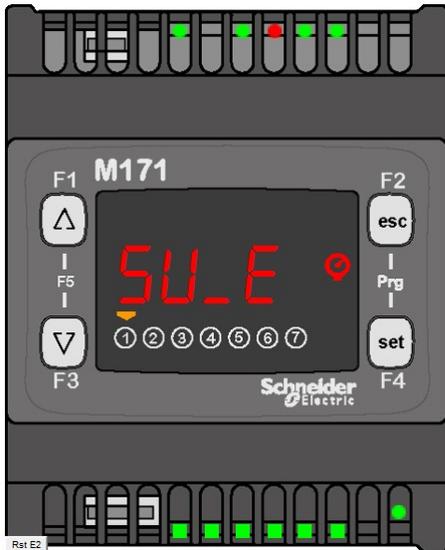


**After making any parameter adjustments, you can return to the Main Tank Pressure screen by pressing the “esc” button multiple times until you get to the “Sett” display.**

**Then you can hold the “esc” for 3 sec to return to the main display.**

# Menu SHed — Changing the Schedule Parameters

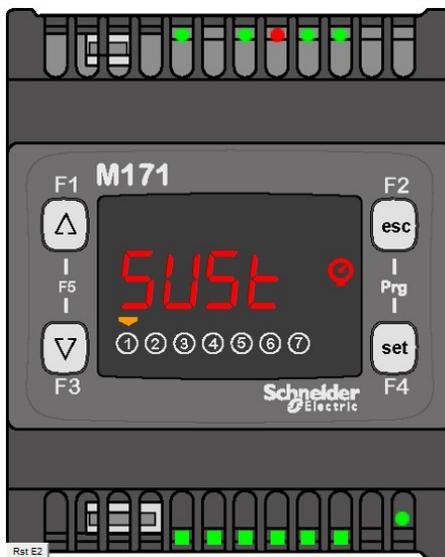
## Sunday Scheduler



### Day Enabler

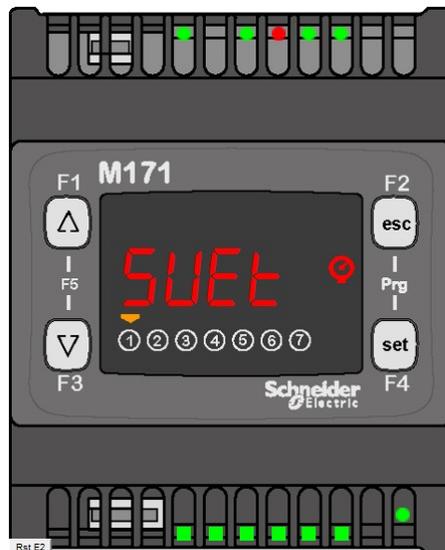
Enable the ON/OFF times for this day.

Even if you have Start and Stop Time loaded into a particular day of the week the compressor will not start or stop without that specific day being enabled.



### Start Time

Set the Start Time for this day.

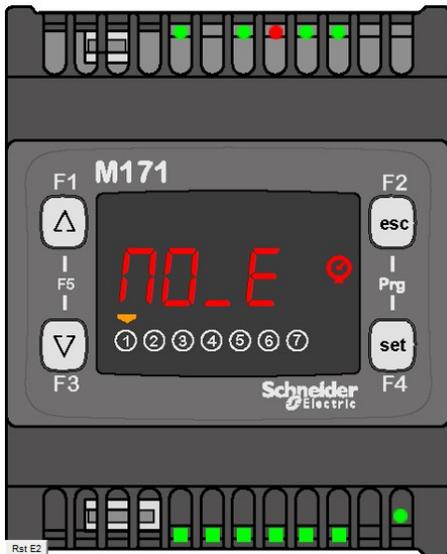


### End Time

Set the End Time for this day.

## Menu SHed — Changing the Schedule Parameters—cont'd

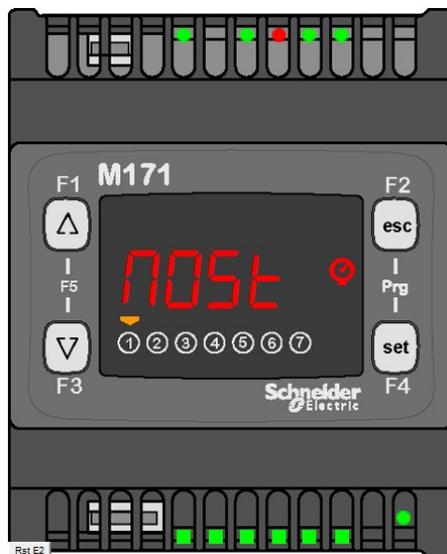
### Monday Scheduler



#### Day Enabler

Enable the ON/OFF times for this day.

Even if you have Start and Stop Time loaded into a particular day of the week the compressor will not start or stop without that specific day being enabled.



#### Start Time

Set the Start Time for this day.

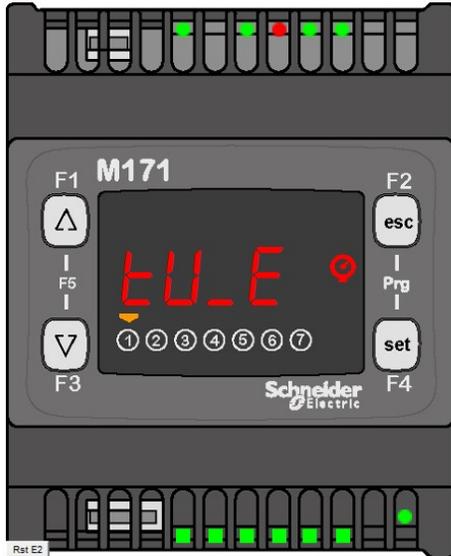


#### End Time

Set the End Time for this day.

## Menu SHed — Changing the Schedule Parameters—cont'd

### Tuesday Scheduler



#### Day Enabler

Enable the ON/OFF times for this day.

Even if you have Start and Stop Time loaded into a particular day of the week the compressor will not start or stop without that specific day being enabled.



#### Start Time

Set the Start Time for this day.

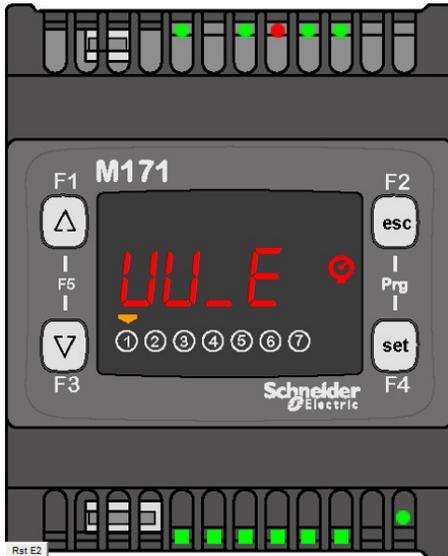


#### End Time

Set the End Time for this day.

## Menu SHed — Changing the Schedule Parameters—cont'd

### Wednesday Scheduler



#### Day Enabler

**Enable the ON/OFF times for this day.**

**Even if you have Start and Stop Time loaded into a particular day of the week the compressor will not start or stop without that specific day being enabled.**



#### Start Time

**Set the Start Time for this day.**

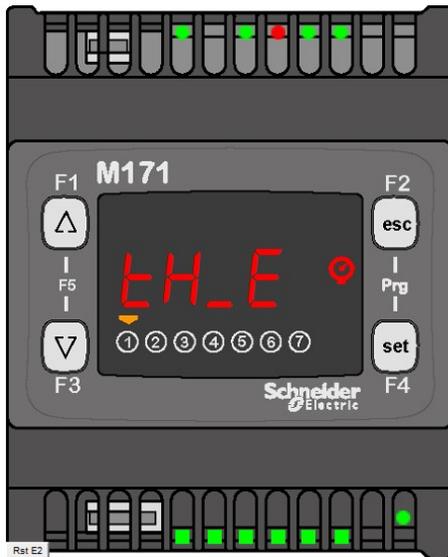


#### End Time

**Set the End Time for this day.**

## Menu SHed — Changing the Schedule Parameters—cont'd

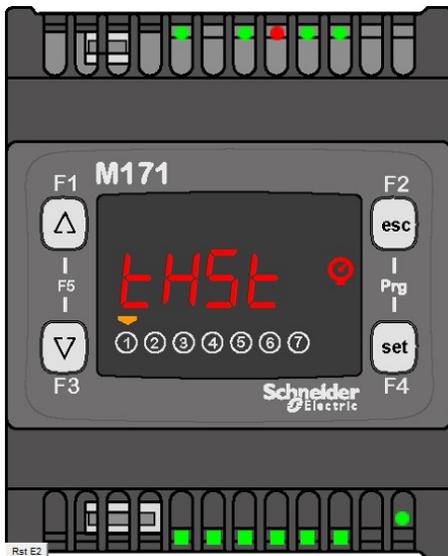
### Thursday Scheduler



#### Day Enabler

Enable the ON/OFF times for this day.

Even if you have Start and Stop Time loaded into a particular day of the week the compressor will not start or stop without that specific day being enabled.



#### Start Time

Set the Start Time for this day.

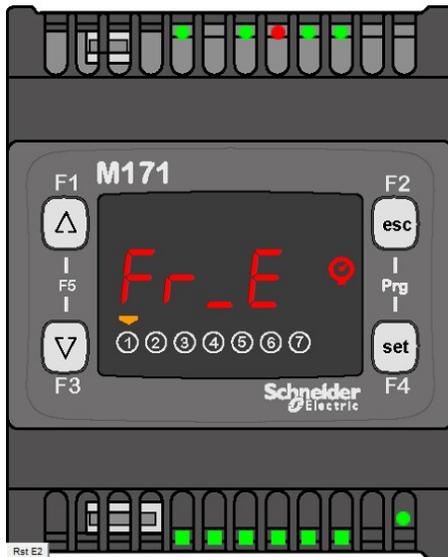


#### End Time

Set the End Time for this day.

## Menu SHed — Changing the Schedule Parameters—cont'd

### Friday Scheduler



#### Day Enabler

Enable the ON/OFF times for this day.

Even if you have Start and Stop Time loaded into a particular day of the week the compressor will not start or stop without that specific day being enabled.



#### Start Time

Set the Start Time for this day.



#### End Time

Set the End Time for this day.

## Menu SHed — Changing the Schedule Parameters—cont'd

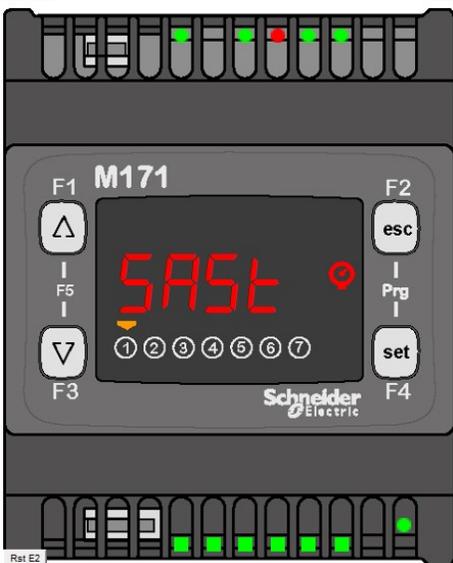
### Saturday Scheduler



#### Day Enabler

Enable the ON/OFF times for this day.

Even if you have Start and Stop Time loaded into a particular day of the week the compressor will not start or stop without that specific day being enabled.



#### Start Time

Set the Start Time for this day.



#### End Time

Set the End Time for this day.

## **AUTOMATIC MODE**

### **Running with the Weekly Schedule Enabler (UUEE) set to ON**

**The Compressor will run in automatic mode if:**

- 1. The Weekly Enabler set to ON.**
- 2. The Current Day of the week set to ON. i.e. MO\_E set to ON.**
- 3. The Current Day Time is > the Current Day Start Time value.  
i.e. Current Day Time > MOSt (9:00 > 8:00)**
- 4. The Current Day Time is > the Current Day Start Time value.  
i.e. Current Day Time < MOEt (16:00 > 17:00)**
- 5. No Errors Present.**

### **Clearing Errors with the Weekly Schedule Enabler set to ON**

**Errors with the Weekly Schedule Enabler set to On must be cleared from the PLC and not the Drive Display's (STOP/RESET) key.**

**Clear Error (i.e. OiLP—Low Oil Pressure) by pressing and holding the SET (F4) for 2 sec. OiLP will clear from the PLC Screen and the External Error will be cleared from the Drive Screen. If all of the RUN condition list above are met then the compressor will start Running.**

# MANUAL MODE

## Running the compressor in manual mode

**The Compressor will run in manual mode if:**

- 1. The START button is pressed on the Drive Display.**
- 2. The STOP button is pressed on the Drive Display.**
- 3. The STOP button is pressed on the PLC Screen.**
- 4. The STOP button is pressed on the External Error Screen.**
- 5. No Errors Present.**

## Clearing Errors in Manual Mode

**Errors in Manual Mode must be cleared from the Drive Display's (STOP/RESET) key and not the PLC's keys.**

**Clear current error (i.e. OiLP—Low Oil Pressure) by pressing (STOP/RESET) key. OiLP will clear from the PLC Screen and the External Error will be cleared from the Drive's Screen. The compressor will not run until The (START) key is pressed.**

# SCREEN STATE SYMBOLS

## Automatic and Manual Modes



### RUNNING SYMBOL — 3 States

<b>Stopped</b>	<b>Not Visible</b>	<b>Auto and Manual</b>
<b>Running or Ready to Run (Sleep Mode)</b>	<b>On (Steady)</b>	<b>Auto and Manual</b>
<b>Day not Enabled or Current Time not within Day Run Times</b>	<b>On (Flashing)</b>	<b>Auto only</b>



### STANDBY SYMBOL — 2 States

<b>Running</b>	<b>Not Visible</b>
<b>Standby</b>	<b>On (Flashing)</b>

## **SCREEN STATE SYMBOLS – cont'd**

### **Automatic and Manual Modes**

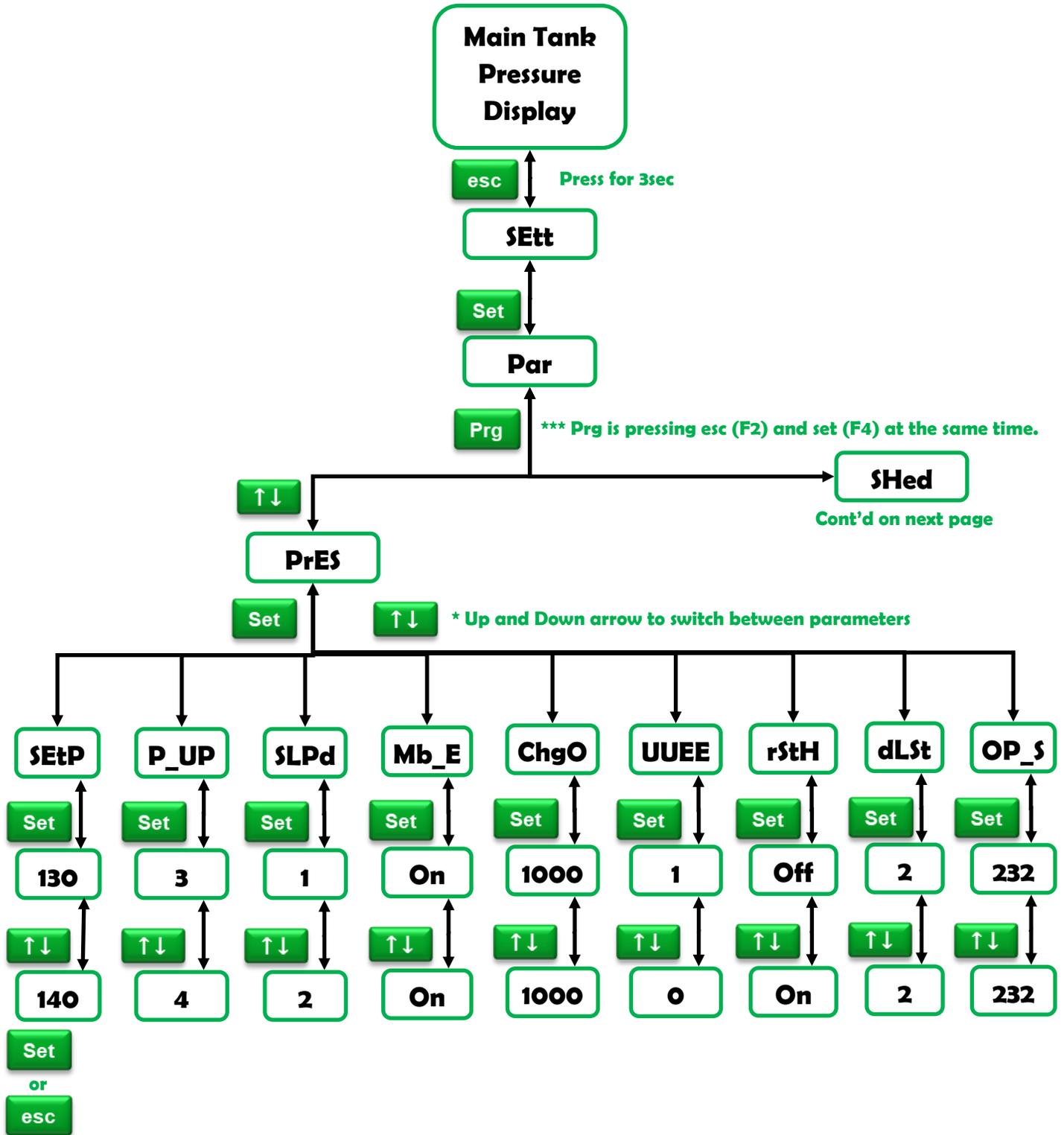


#### **ENERGY SAVINGS SYMBOL — 3 States**

<b>Running &gt; 45 Hz or Stopped or Error</b>	<b>Not Visible</b>
<b>Running &lt; 45 Hz</b>	<b>On (Flashing)</b>
<b>In Sleep Mode</b>	<b>On (Steady)</b>

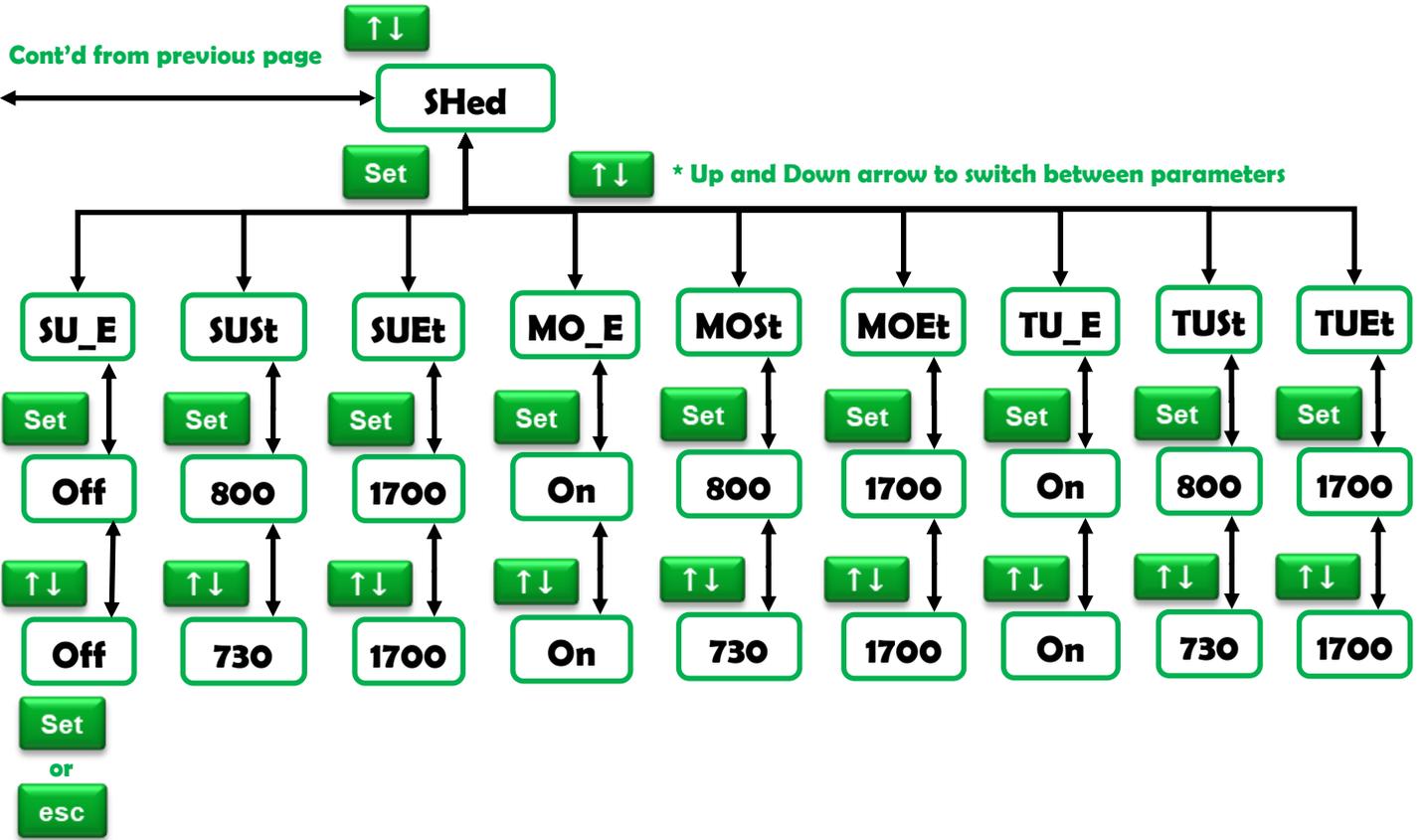
# Menu SHed — Changing the Schedule Parameters—cont'd

## Menu Architecture

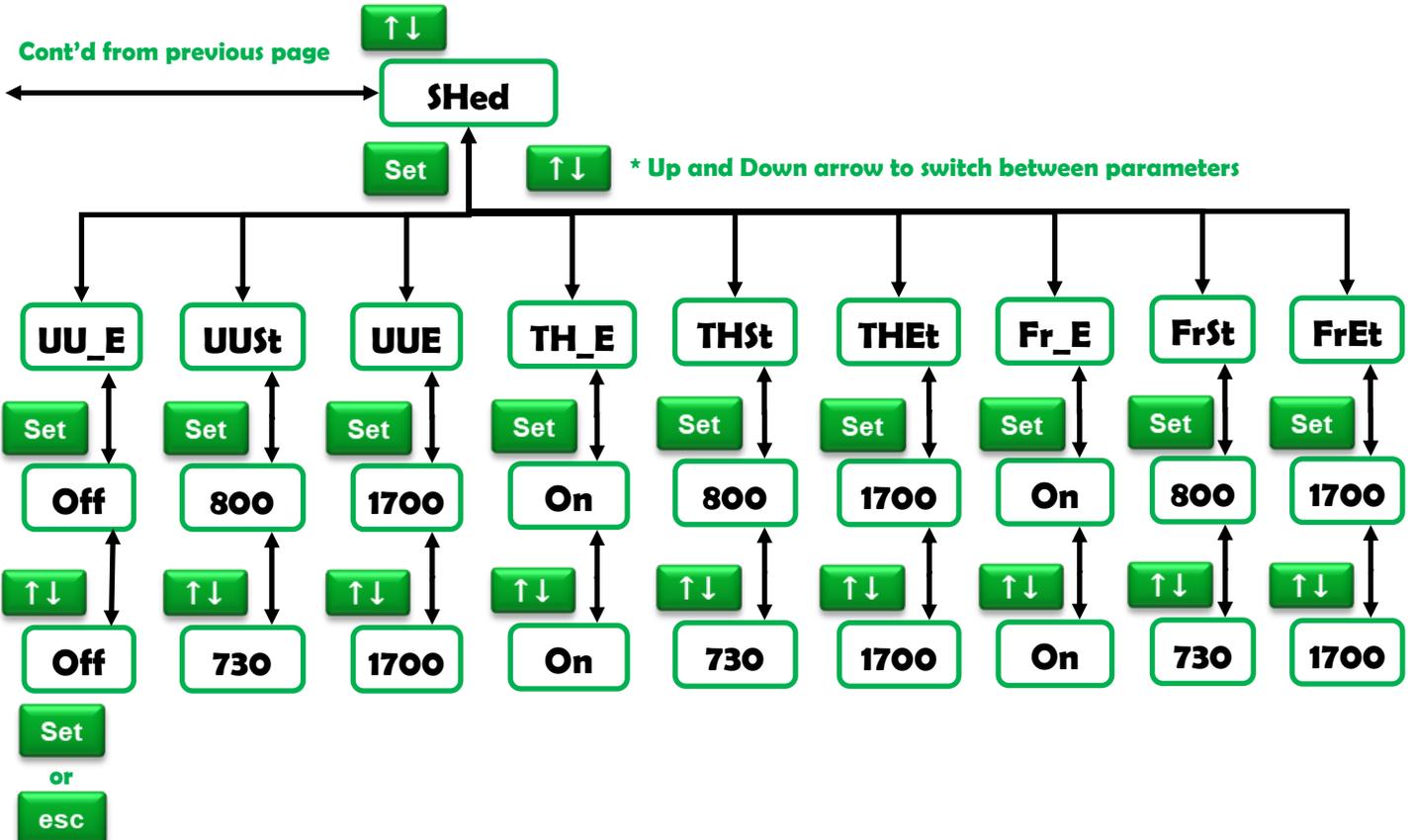


\*\* SET to confirm modification or ESC to cancel modification

\*\*\* Works for all parameters



\*\* SET to confirm modification or ESC to cancel modification  
 \*\*\* Works for all parameters



\*\* SET to confirm modification or ESC to cancel modification  
 \*\*\* Works for all parameters

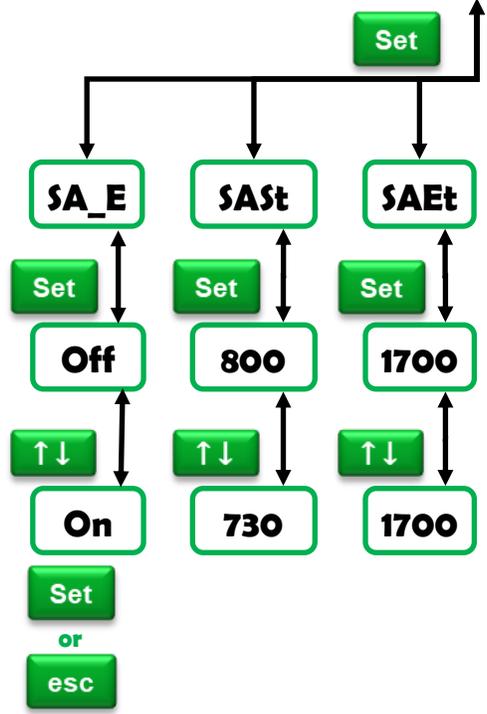
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**\$Hed**

↑↓ \* Up and Down arrow to switch between parameters



\*\* SET to confirm modification or ESC to cancel modification  
\*\*\* Works for all parameters