

SPINNER SamrtLoad

PLC Programming and read out



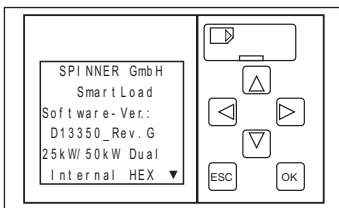
Before you start, ensure to read and understand the section safety messages and in particular chapter 1 "Safety" of the product manual supplied with this product. Only electrically skilled persons may open the control box of SPINNER dummy loads to operate the PLC in accordance with the national safety and accident prevention regulations.

Failure to observe could result in death or serious injury.

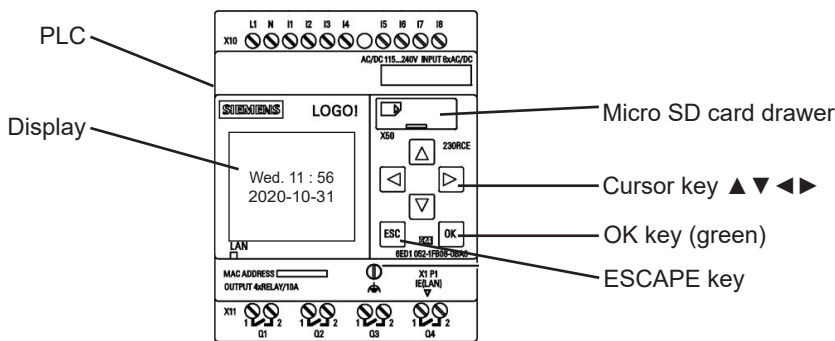
Preparing the PLC

Switch on your SmartLoad and wait until all devices have been running through their boot sequences. The green light on the front panel shows you, that the system is ready. Open the door of the electric control box with the delivered key.

The initial screen is displayed:

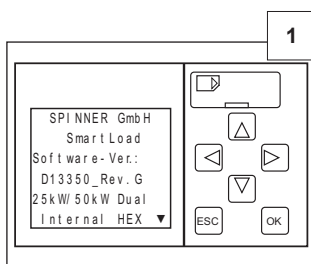


PLC description

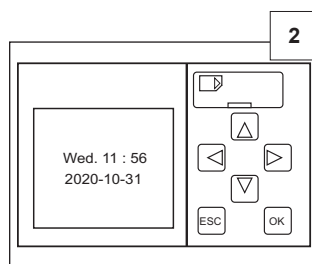


PLC clock time setting

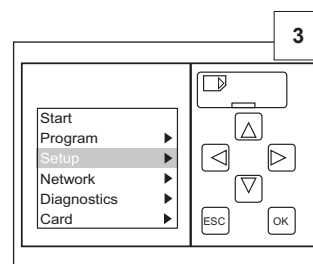
To prevent coolant pump from becoming jammed, the PLC activates an automatic maintenance cycle weekly on Tuesday at 8:00 am for the duration of three minutes. If there is a power outage of the PLC for more than approx. 20 days, on restarting, the internal clock is back in the status that it was in before the power outage. For correct execution, set the PLC clock as follows:



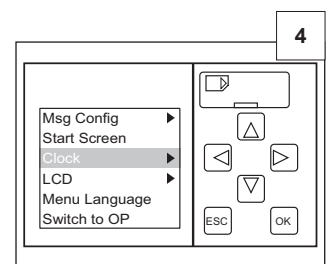
1 Press Key ▼ until the date screen is displayed.



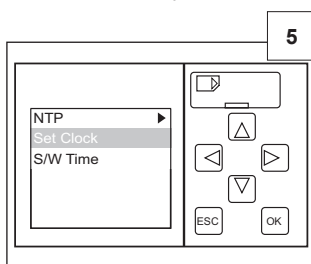
2 Press ESC.



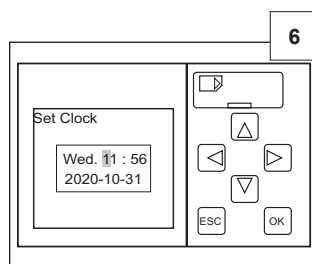
3 Select "Setup" (Key ▼ or ▲) and press OK.



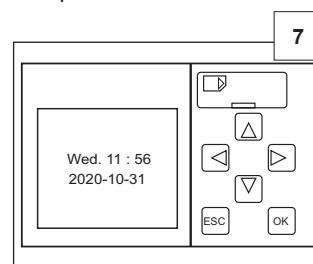
4 Select "Clock" (Key ▼ or ▲) and press OK.



5 Select "Set Clock" (Key ▼ or ▲) and press OK.



6 Move the cursor onto required position (Key ◀ or ▶) and modify the value (Key ▼ or ▲) to set time and date.



7 Press ESC 4x and then press ▲ key several times to return to the initial screen.

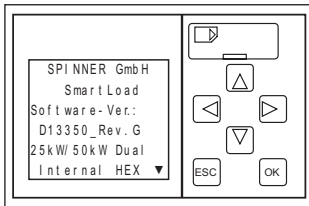
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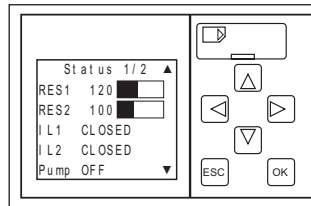
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Read out Temperature Values and Service Information

The PLC provides additional information about the operating status. The ▼ ▲ keys can be used to call up additional screens:

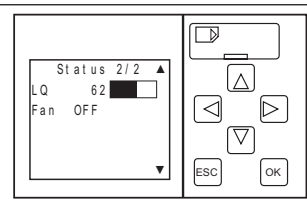


Initial screen with software number and revision.

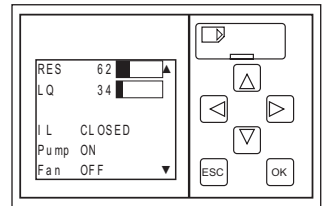


resistor temperature values of SmartLoads with two resistors.
Interlock loop status.
Pump status (on or off).

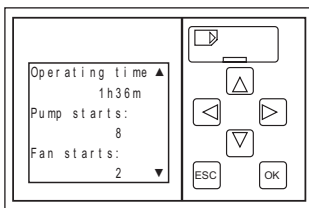
and



Coolant temperature value of SmartLoads with two resistors.
Fan status (on or off).

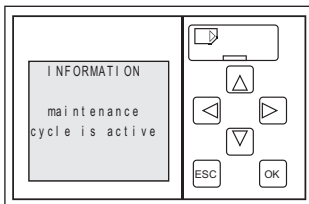


Temperature values of SmartLoads with one resistor.
Interlock loop status.
Pump and fan status (on or off).



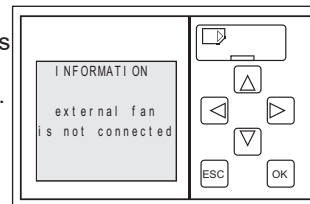
Overall operating time as well as pump and fan starts.

These screens appear automatically. The display changes from a white background to an orange background:



Maintenance cycle information disappears automatically when the cycle is finished.

This screen only appears for SmartLoads with external heat exchanger.

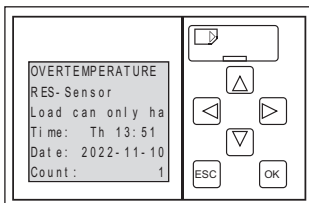


"Fan not connected" information disappears as soon as the fan is connected.

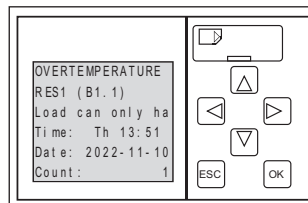
When an error occurs, one of the following screens appears. The display changes from a white background to a red background. If several errors occur, the individual information can be called up with the ▼ ▲ keys.

By pressing the pump button on the back of the control box, **all** error messages are deleted except the master alarm message.

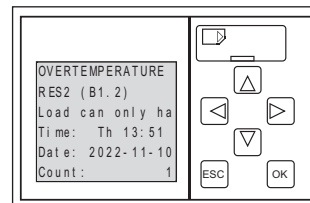
To delete the master alarm message the pump button must be pressed for 5 seconds:



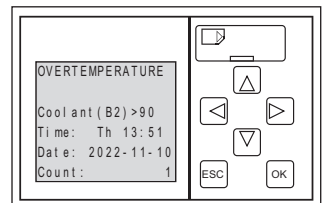
Overtemperature at the resistor for SmartLoads with one resistor.



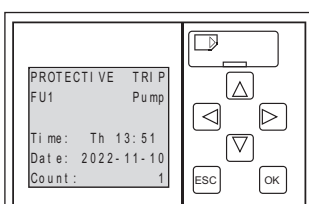
Overtemperature at the resistor 1 for SmartLoads with two resistors.



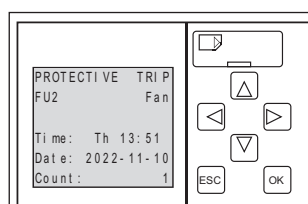
Overtemperature at the resistor 2 for SmartLoads with two resistors.



Overtemperature of the coolant.



Motor protection of the pump has tripped.

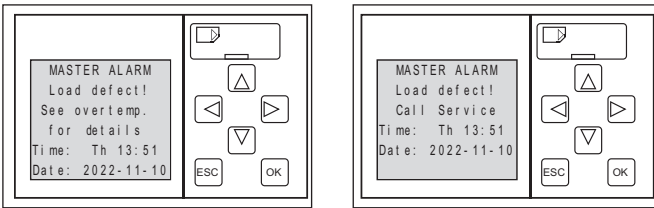


Motor protection of the fan has tripped.

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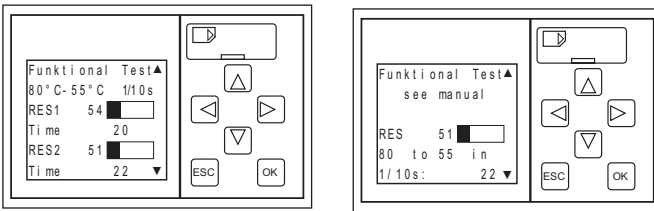
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Multiple overtemperature events have occurred and there may be a defect in the resistor element.

Contact SPINNER After Sales Service to clarify how to proceed: after-sales-service@spinner-group.com

These screens are required for a functional test:



For more information about the functional test, please contact SPINNER After Sales Service: after-sales-service@spinner-group.com

These instructions are written for qualified and experienced personnel. Please study them carefully before starting any work. Any liability or responsibility for the results of improper or unsafe installation practices is disclaimed. Please respect valid environmental regulations for assembly and waste disposal. Studieren Sie bitte sorgfältig vor Beginn der Montage diese Anleitung, die für geschultes und qualifiziertes Personal erstellt ist. Bei unsachgemäßer Montage ist eine Haftung bzw. Gewährleistung ausgeschlossen. Bitte beachten Sie bei Montage und Entsorgung die geltenden Umweltschutzbestimmungen. Ces instructions sont écrites pour des personnes qualifiées et expérimentées. Il est nécessaire de bien les lire avant de commencer l'installation. Notre responsabilité ne pourra être engagée si l'installation n'a pas été faite en conformité avec nos instructions. Prêre de respecter les règles d'environnement en application pour le montage. Estas instrucciones están dirigidas a personal calificado y con la debida experiencia. Por favor léelas cuidadosamente antes de iniciar su trabajo. No asumimos ninguna responsabilidad derivada de instalaciones impropias ó sin las adecuadas medidas de seguridad. Por favor respete las regulaciones para protección ambiental y desecho de desperdicios. Estas instruções são dirigidas ao pessoal qualificado e com a devida experiência. Por favor leia-as atentamente antes de começar a tarefa. Não assumimos nenhuma responsabilidade devido a execução da instalação de maneira imprópria ou sem as adequadas medidas de segurança. Por favor respeite os regulamentos válidos de meio ambiente para a montagem e remoção de resíduos. 本安装说明为合格及有经验的操作人员所写。请在安装之前仔细阅读。任何不恰当或不安全的安装所引起的责任，都将不予受理。并请遵守关于装配件及废物弃置的有效环保条例。