

Function

The SFT2841 software is the setting and operating tool for Sepam series 20, Sepam series 40 et Sepam series 80.

It may be used in 2 operating modes:

- unconnected to Sepam, to prepare parameter and protection settings
- connected to Sepam, to download and upload Sepam parameter and protection settings and have access to all operating functions.

Preparation of Sepam parameter and protection settings in unconnected mode

- configuration of Sepam and optional modules, and entry of general settings protected by parameter setting password
- enabling/disabling of functions and entry of protection settings, protected by protection setting password
- customization of control and monitoring functions
- modification of passwords.

Installation operation in connected mode

- access to all functions available in unconnected mode
- transfer of Sepam parameter and protection setting file, prepared in unconnected mode (downloading function)
- display of all metering and diagnosis data
- display of time-tagged alarm messages
- display of logic input, logic output and LED status
- retrieval of disturbance recording data.

Efficient, easy-to-use software

- menus and icons for fast, direct access to the data required
- guided navigation to go through all the data input screens in the natural order
- all data on the same function together in the same screen
- trilingual software: English, French, Spanish
- software screens may be translated
- on-line help, with all the technical information needed to use and implement Sepam
- familiar file management in Microsoft Windows environment:
 - all file management services included: copy / paste, save, etc.
 - printing of parameter and protection settings in standard layout
 - exporting of parameter and protection settings in a text file for printing in personalized layout.

Characteristics

Minimum configuration required

Processor	PC compatible, Pentium 133 MHz
Operating systems	Microsoft Windows 95/98/NT4.0/2000/XP
RAM	64 MB (32 MB for Windows 95/98)
Space on disk	64 MB

SFT2841 Sepam PC software kit

The SFT2841 software comes in a kit which includes:

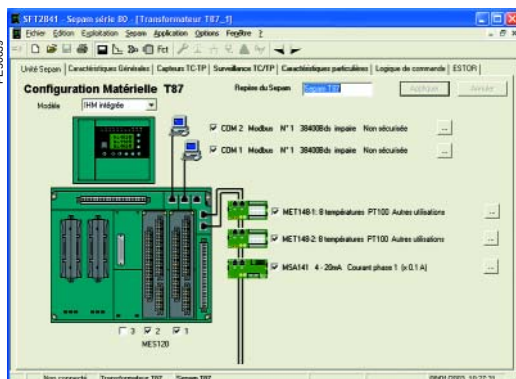
- 1 CD-ROM with:
 - SFT2841 Sepam setting and operating software
 - SFT2826 disturbance recording data display software
 - PDF files of Sepam manuals
- 1 PC / Sepam CCA783 serial link cord.

Function selection table

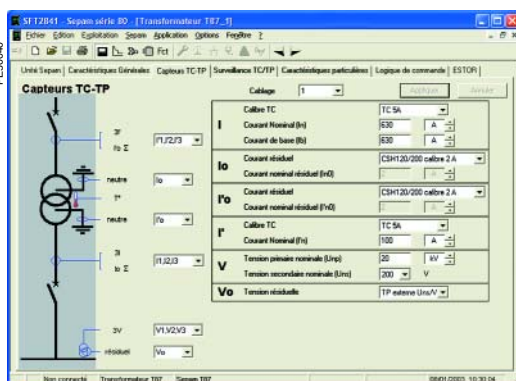
The availability and performances of the SFT2841 software function depend on the Sepam series.

The table below gives the SFT2841 functions available for each of the 3 Sepam series: Sepam series 20, Sepam series 40 and Sepam series 80.

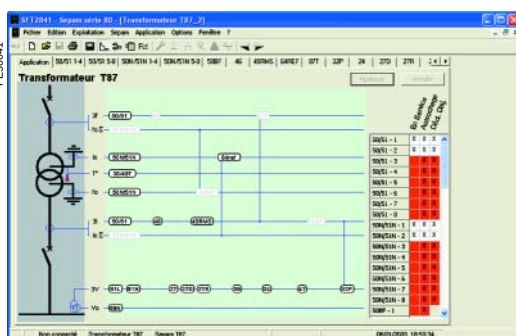
Functions	series 20	series 40	series 80
SFT2841 connected mode via Sepam front panel	■	■	■
SFT2841 connected mode via Modbus communication network			■
Management of parameter and protection setting files: creation, saving, downloading and uploading	■	■	■
Exporting of parameter and protection settings in a text file	■	■	■
Printing of parameter and protection settings	■	■	■
Management of 2 passwords, one for parameter setting and one for protection setting	■	■	■
On-line help	■	■	■
Sepam parameter setting			
Display of parameter settings	■	■	■
Hardware configuration and parameter entry protected by parameter setting password	■	■	■
Graphical parameter setting assistance			■
Protection setting			
Display of protection settings	■	■	■
Entry of protection settings, protected by protection setting password	■	■	■
Definition of customized tripping curve			■
Field loss protection (ANSI 40) setting assistance			■
Installation operation			
Display of metering and diagnosis data	■	■	■
Display of time-tagged alarm messages	■	■	■
Retrieval of disturbance recording files	■	■	■
Display of logic input/output status	■	■	■
Logic output testing	■	■	■
Tripping context		■	■
Sepam diagnosis	■	■	■
Customization			
Advanced UMI LED assignment	■	■	■
Control matrix adaptation	■	■	■
Logic equation editor			
Number of instructions	0	100	200
Number of dedicated remote indications	0	10	20
Alarm and operating messages			
Number of personalized messages	0	30	30



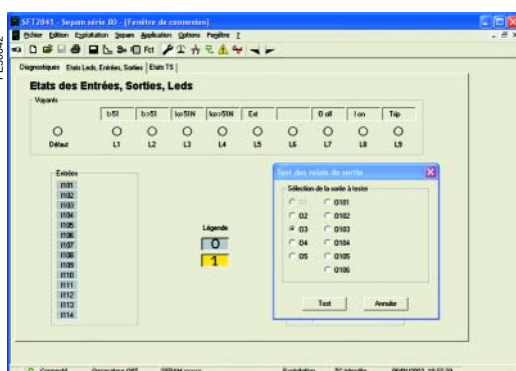
SFT2841: Sepam series 80 hardware configuration.



SFT2841: Sepam series 80 sensor parameter setting.



SFT2841: Sepam series 80 application, with protection function measurement origin.



SFT2841: logic output testing.

Customization functions

Specific control and monitoring functions may also be performed by Sepam for particular needs, by the use of the SFT2841 software, which offers the following customization options:

- logic equation editor, to program original control and monitoring functions
- creation of personalized messages for local display
- customization of the control matrix by changing the assignment of output relays, LEDs and display messages.

The availability and performances of the SFT2841 software function depend on the Sepam series.

Please refer to the function selection table for more information.

Logic equation editor

The logic equation editor included in the SFT2841 software is used to:

- adapt protection function processing:
 - ☐ additional interlocking
 - ☐ conditional inhibition/validation
 - ☐ etc.
- customize predefined control functions: particular circuit breaker or recloser control sequences, etc.
- set up specific automation functions : automatic source transfer, etc.

A logic equation is created by grouping logic input data received from:

- protection functions
- logic inputs
- remote control orders

using the Boolean operators AND, OR, XOR, NOT, and automation functions such as time delays, bistables and time programmer.

Equation input is assisted and syntax checking is done systematically.

The result of an equation may then be:

- assigned to a logic output, LED or message from the control matrix
- transmitted by the communication link, as a new remote indication
- utilized by the circuit breaker/contactors control function to trip, close or inhibit breaking device closing
- used to inhibit or reset a protection function.

Personalized alarms and operating messages

The alarm and operating messages may be personalized using the SFT2841 software.

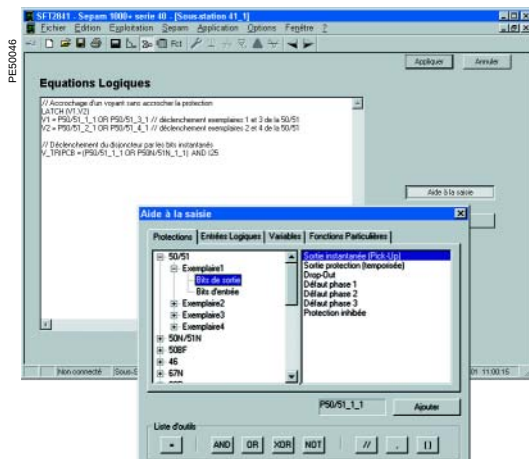
The new messages are added to the list of existing messages and may be assigned via the control matrix for display:

- on Sepam's advanced UMI
- in the SFT2841 "Alarms" and "Alarm History" screens

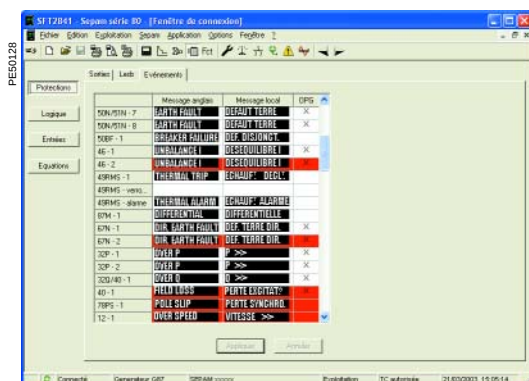
Control matrix

The control matrix is used for simple assignment of data from:

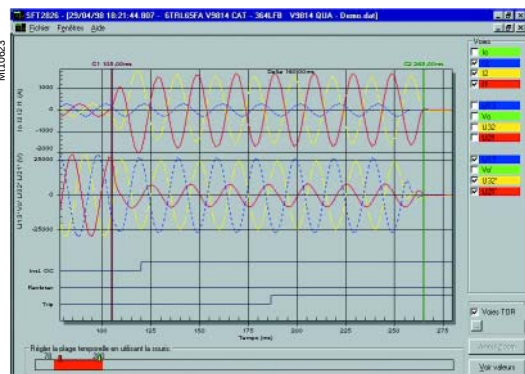
- protection functions
 - control and monitoring functions
 - logic inputs
 - logic equations
- to the following output data:
- output relays
 - 9 LEDs on the front of Sepam
 - messages for local display
 - triggering of disturbance recording.



SFT2841: logic equation editor.



SFT2841: control matrix.



SFT2826: analysis of a disturbance data record.

Function

The SFT2826 software is used to display, analyze and print disturbance data recorded by Sepam.

It uses COMTRADE (IEEE standard: Common format for transient data exchange for power systems) files.

Transfer of disturbance recording data

Before they are analyzed by SFT2826, the disturbance recording data must be transferred from Sepam to the PC:

- by the SFT2841 software
- or by the Modbus communication link.

Analysis of disturbance recording data

- selection of analog signals and logic data for display
- zoom and measurement of time between events
- display of all numerical values recorded
- exporting of data in file format
- printing of curves and/or numerical values recorded.

Characteristics

The SFT2826 software is included in the SFT2841 Sepam PC software kit:

- 4 languages: English, French, Spanish, Italian
- on-line help with description of software functions.