

# AVK/MICS TELYS2 CONTROL

## Simplicity

The straight forward TELYS interface ensures it is easy to use: a START button, STOP button, MENU button, ESCAPE button and 3 LEDSs (operation, alarm and fault). The ridged control wheel makes this interface particularly easy to operate, as it allows you to scroll through the menus and make selections at a single touch. Pictograms ensure that all

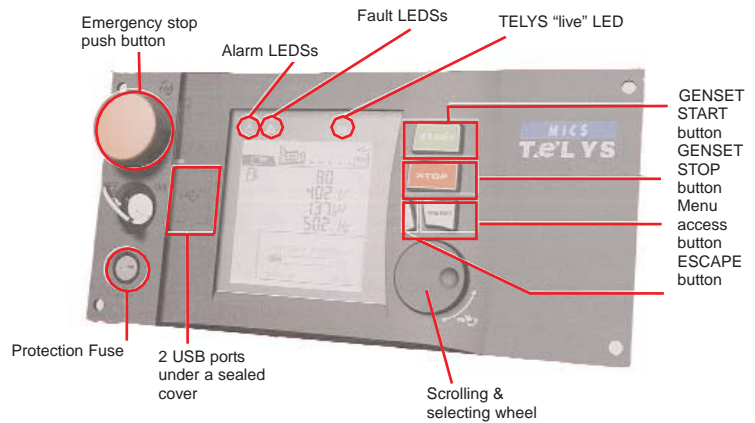
information given can be immediately understood.

## User-Friendliness

The Telys has a large, backlit screen, the contrast for which does not need to be adjusted, making your installation a pleasure to use, whether inside or out, both day and night. The drop down menus and descriptions ensure that no further explanation is needed. The integrated maintenance tool warns you of future servicing requirements and the fault finding aid guides you through any alarms or faults signalled by the TELYS.

## Modularity

With the same format and design as the NEXYS, the TELYS can be easily fitted in place of the latter. To improve the control of your parameters and increase the potential of your installation, three cards can be connected to the TELYS (inputs/Outputs, Speed/Voltage trimming and Synchronizing). Certain retrospective options can also be added to update the product .



## Communication

The generating set can be controlled and operating parameters viewed remotely, without having to install specific software, via a computer network, a landline telephone network or a mobile telephone network. The USB ports ensure that it is easy to recover any events connected to the operation of the generating sets, to change parameters or to update the software.

## Presentation

The large personalised TELYS screen, makes different information easy to read (pictograms, measurement and messages). Its backlit design gives it a contrast which is adapted to all types of ambient light. The section with graphics is split into four zones.

up to 5 interface cards can be fitted, each providing 4 inputs & 6 output channels



### MAIN BOARD STANDARD SPECIFICATIONS

#### Electrical Measurement

Single voltages  
Voltage Composite voltages  
Frequency  
voltage Active/reactive/short circuit apparent power  
Power Factor  
Total and partial counter  
Total and Partial active  
Reactive energy meter  
Currents

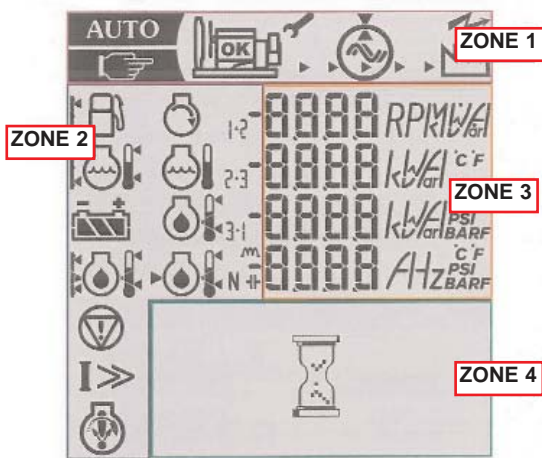
#### Engine Measurements

Fuel level %  
Oil pressure (Bar/Psi)  
Coolant temperature  
Oil temperature  
Battery voltage:  
Charging/Alternator current  
Engine speed

#### Safety Features

Min/Max Alternator  
Min/Max Alternator frequency  
Min/Max Battery  
Overload and/or  
Oil Pressure  
Coolant temperature  
Overspeed  
Underspeed

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### ZONE 1

Informs the user of the generating set operating mode

- 1). Manual or automatic mode
- 2). Generating set operating - Voltage and frequency stable
- 3). The generating set is powered by the installation (flashing arrows)
- 4). Network synchronising or synchronizing between generator sets (option)
- 5). Maintenance indicator

### ZONE 2

The function pictograms are displayed: measurements, alarms or fault.

- 1). Fuel Level
- 2). Coolant temperature & level
- 3). Battery voltage and charge
- 4). Oil pressure, temperature & level
- 5). Emergency stop
- 6). Overload
- 7). Failure to start, underspeed and overspeed.
- 8). Engine speed

### ZONE 3

The electrical and mechanical values and the associated units of measurement are shown.

### ZONE 4

The menus and messages connected to the operation of the generating set are found in zone 4.

### MAIN BOARD OPTIONAL SPECIFICATIONS

CM402	Prewiring for auto start-up
CM403	Automatic Pack (Charger (12v) + Engine preheating 220/240 v (Relay + resistance)
CM404	Automatic Pack (Charger (24v) + Engine preheating 220/240 v (relay + resistance)
CM405	Report pack (Genset running, General fault, low diesel level fault or alarm)
CM406B	Adjustable mains detection in the control unit
CM407	Analog values displayed on screen (PH/TE)
CM408	Remote starter unit
CM409	Battery ammeter
CM410	Voltage trimming
CM411	Speed trimming (if elec regulator is possible and selected)
CM412	Sound alarm fitted in the collant unit
CM415	Safety feature for low coolant level
CM416	Low fuel level safety feature for chassis tank (Alarm as standard)
CM418	Differential protection 30 or 300mA (Non adjustable < = 50 A)
CM419	Differential protection 30 or 300mA (Non adjustable < = 125A)
CM420	Adjustable differential protection (time & threshold)
CM603	No preheating
CM604	Charger fault (24v)
CM607	Central processing unit with neutral (ITAN)
CM608	Central processing unit without neutral (ITSN)
CM610	NFPA110 module level 1
CM611	NFPA Visable transfer unit
CM616	Low fuel level safety feature for seperate tank
CM617	Low fuel level alarm for seperate tank

### INFORMATION REPORT

CE100	Fixed distance report pack (genset running, General fault, low fuel level fault or alarm)
CE220	Configurable distance report pack (6 report maximum)
CE221	Genset ON
CE222	Genset in automatic mode
CE223	Genset in non-automatic mode
CE224	Genset in manual mode
CE225	Genset in test mode
CE226	Genset stopped
CE22A	General fault
CE22B	Non-starting fault
CE22C	Oil Pressure fault
CE22D	Water temperature fault
CE22E	Low water level fault
CE22F	Overspeed fault
CE22G	Alternator voltage fault
CE22S	General alarm
CE22T	Low fuel level alarm
CE22U	Loss of coolant preheating alarm
CE22V	Min battery voltage alarm
CE22W	Battery charger fault alarm

### EXTERNAL COMMUNICATION

CEA12	Remote control via local ETHERNET network or RS485 Mod bus
CEA52	Remote control via PSTN fixed telephone network
CEA62	Remote control via GSM mobile telephone network