

TRAFFY® 3

ADVANCED TECHNOLOGY



Designed, manufactured and commercialized by LACROIX Trafic, TRAFFY® 3 is a state of the art of traffic light junction controller.

Modular and upgradeable, it can answer your traffic management needs and optimize traffic flow planning.

Through the integration of new low energy consuming components and RoHS, the new version of TRAFFY® 3 brings a reliable, expert, long term solution while at the same time conserving compatibility with previous generations.

TRAFFY® 3 can deal with the most simple or the most complex control functions thanks to a unique market tool (acyclic, VTC, DIASER, Booleen, Priority Management Module, data collection...).





TRAFFY® 3

A smart, reliable and secure management system

TRAFFY® 3 is compatible with all types of Central Traffic Control Centres and/or electronic surveillance (DIASER, Gertrude, Criter, Sier...) and can be used with normalized or specific communication protocols.

When operating locally, the internal control clock accepts a number of calibration settings (FRANCE inter, Frankfort, GPS, Pulsadis...) in order to have the same time base between all the controllers.

The structure of the TRAFFY® 3 multiprocessor divides the processing capacity among the microprocessor cards rendering unnecessary any local pre-processing of data (monitoring each power outlet, voltage, current, phase difference, security checks...). The CPU of the TRAFFY® 3 is able to manage evaluated functions (Acyclic, VTC-DIASER, Booleen, Priority Management Module data collection...).

Being highly reliable, the detection of anomalies is immediate. In addition, to guarantee the security and durability of data, the parameters and specific functions of each intersection are saved in the memory of the TRAFFY® 3 FLASH software.

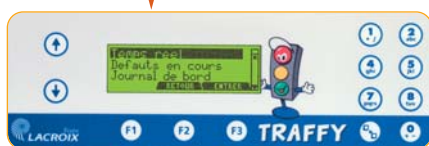
A state of the art concept

The TRAFFY® 3 processor uses very low power consumption CMS technology and integrates the principles of sustainable development and electronic component reliability. Grouped on a single rack, each card has its own microprocessor, visualization diodes on the front face and a 'bus CAN' communication interface. The latter, renowned in industrial and automobile fields, meets the highest of standards and is recognized for its high performance and its resistance in a disruptive environment.

TRAFFY® 3 offers high performance security controls whatever the type or number of light sources being managed (lights, diodes, very low voltage lamps, incandescent lamps, fluorescent tubes...) and all of this is applies to all the power outputs thanks to:

- > Individual configuration of power supply thresholds,
- > Individual and analogical measures with regard to voltage, power and/or phase difference.

TRAFFY® 3 can be easily integrated with sound management functions for the visually handicapped as well as a number of innovative detection systems such as video camera, bus priority, tramway...



DISPLAY CONTROL CONSOLE

- > Parameters visualization and modification
- > Diagnostic and maintenance tool



1 - CARD POWER SUPPLY

- > RoHS
- > Power supply 127/230 Vac or 24 Vac (50 or 60 Hz)
- > Input/output power supply: 12 V-1 A
- > Time base signals (50 or 60 Hz)
- > Short and long term sector fault management
- > Yellow blinking hardware control or emergency stop
- > Temperature sensor



3 - CARD INPUTS/OUTPUTS

- > RoHS
- > 16 inputs - 12 to 24 V
- > 16 inputs or outputs - 12 to 24 V



Variable and modular to satisfy your needs

A modular design

TRAFFY® 3 is a modular traffic junction controller adaptable to your needs without any change to parameters thanks to its conception which allows the addition of up to two racks of traffic light or input/output cards.

This flexibility permits element standardization and so low running costs.

TBT 24 Vac

All elements of the TRAFFY® 3 junction controller (logic parts, power and visualization materials) are available in TBT 24 Vac.

The 24 Vac makes it possible:

- > to improve the security of personnel (users or technical services) in whatever context: accidents, work sites, maintenance,
- > to reduce exploitation costs thanks to low powerconsumption.

CONFIGURATION

- > From 2 to 40 lines of traffic lights
- > From 15 to 79 standard inputs
- > From 3 to 67 standard outputs
- > 2 communication ports RS 232 C totally DIASER
- > 3 USB ports
- > 1 ethernet port 10/100 digital native

PRINCIPAL LAND OPERATED FUNTIIONS

- > 8 interdependent crossroads or intersections
- > 16 traffic light plans "based on local time"
- > 16 traffic light plans "based on synchronized time"
- > 16 traffic light plans
- > 400 Booleen variables
- > 65 variables
- > Numerous system variables generated automatically by the controller
- > Manual control of the intersections
- > Arithmetic functions
- > VTC functions (public transport vehicles)
 - DIASER
 - Booleen
- > MGDGP integrated function
- > Acyclic function
- > Collection of specific data function
- > Counting function
- > Possibility of adding specific functions



2 - CPU3

- > RoHS
- > Supports the base software with all approved security functions
- > 32 bit microprocessor
- > Memories
 - Nor flash 4 Mo
 - Nand flash 128 Mo
 - SDRAM 32 Mo
 - RAM 8 Mo
- > Saving of internal log using lithium batteries securing against sector power cuts
- > 3 USB ports
- > 1 Ethernet port 10/100 digital native
- > 15 logic inputs
- > 3 logic outputs
- > MGDGP and VTC collection and counting functions



4 - TRAFFIC LIGHT CARDS

- > RoHS
- > Management of all types of light source
- > 12 power outputs individually programmable and managed by triacs 16 A / 600 V
- > Output tension of 127/230 Vac or 24 Vac (50 or 60 Hz)
- > Analogical digital converter to insure voltage, current and phase difference
- > 12 three colour LEDs indicating the state of traffic light outputs



Norms and regulations

Conforms to the bye-law of 18 June 2003 relative to the statement of conformity of permanent road traffic light junction controllers.

Art.2 "controllers of of permanent road traffic lights must conform to the norms"

French Transportation Ministry Conformity CF 08

The TRAFFY 3 range has passed all necessary ratification qualifications concerning:

- > electromagnetivity
- > functional security
- > DIASER protocol for normal PC communication taking account of public transport priorities, electronic surveillance etc.

Customer Service

LACROIX Traffic offers:

- > advice,
- > project studies,
- > training,
- > setting up,
- > maintenance of your products.

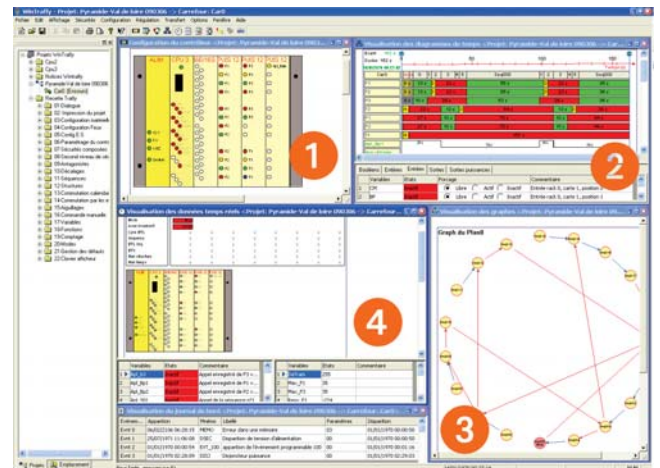


WINTRAFFY User friendly high performance software

WINTRAFFY software enables you to set parameters and visualize information controlled by TRAFFY® 3.

Developed in the WINDOWS environment (XP and Vista pro) makes it possible :

- > to carry out intersection programming with a simple click,
- > to store and analyse data regarding functioning and traffic conditions.



- 1 Graphical representation of junction controller
- 2 Sequence programming
- 3 Overhead crossing visualization
- 4 Logbook visualization



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