

XP line
small size, great power



Main features

The main feature of the XP69 is the color display screen (3.5") with 320x240 dots resolution with led backlighting. XP69 is made in DIN 96x96 format and the module dimensions are 96x96mm.



The user interface is easy and friendly. The easy touch screen system gives both the typical "easy to use" approach of a touch screen system and the strength and mechanical protection of a polycarbonate IP54 keyboard.

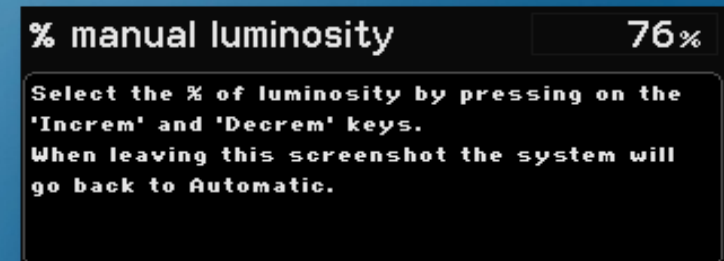


At every screen the function keys display a different graphic making the program very user friendly.

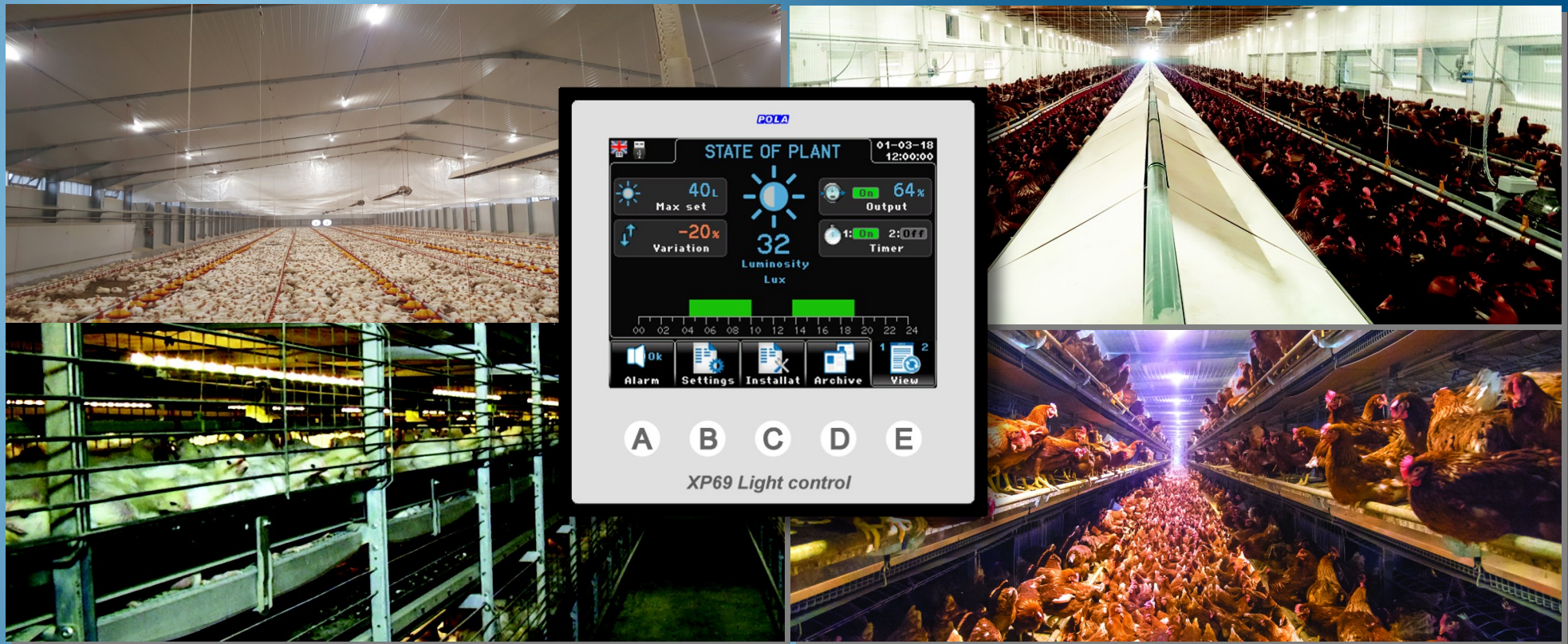
The user can select the display language: all the wordings, acronyms and "help" texts for programming assistance will be displayed in the chosen language.



Each programming step has its own help screen so the program has a "built in" instruction manual.



0-10V Dimmable light control



XP69 controls ascending and descending ramps and the stand by timing at minimum value.

XP69 is compatible with all dimmable lights 0/10v.

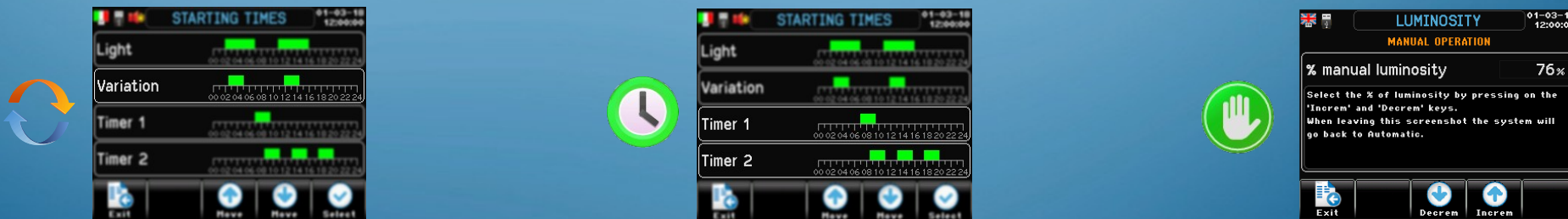
Complete control of the lighting system



XP69 can work by % percentage (0..100%) or by programming the required lux (in this case, the LXD probe must be connected). When installing the lux sensor you can also switch light off (cut off function) when the ambient luminosity is higher than the set one.



The work curve can be calendarized on a day by day basis so the right light can be given to animals according to the day of cycle.

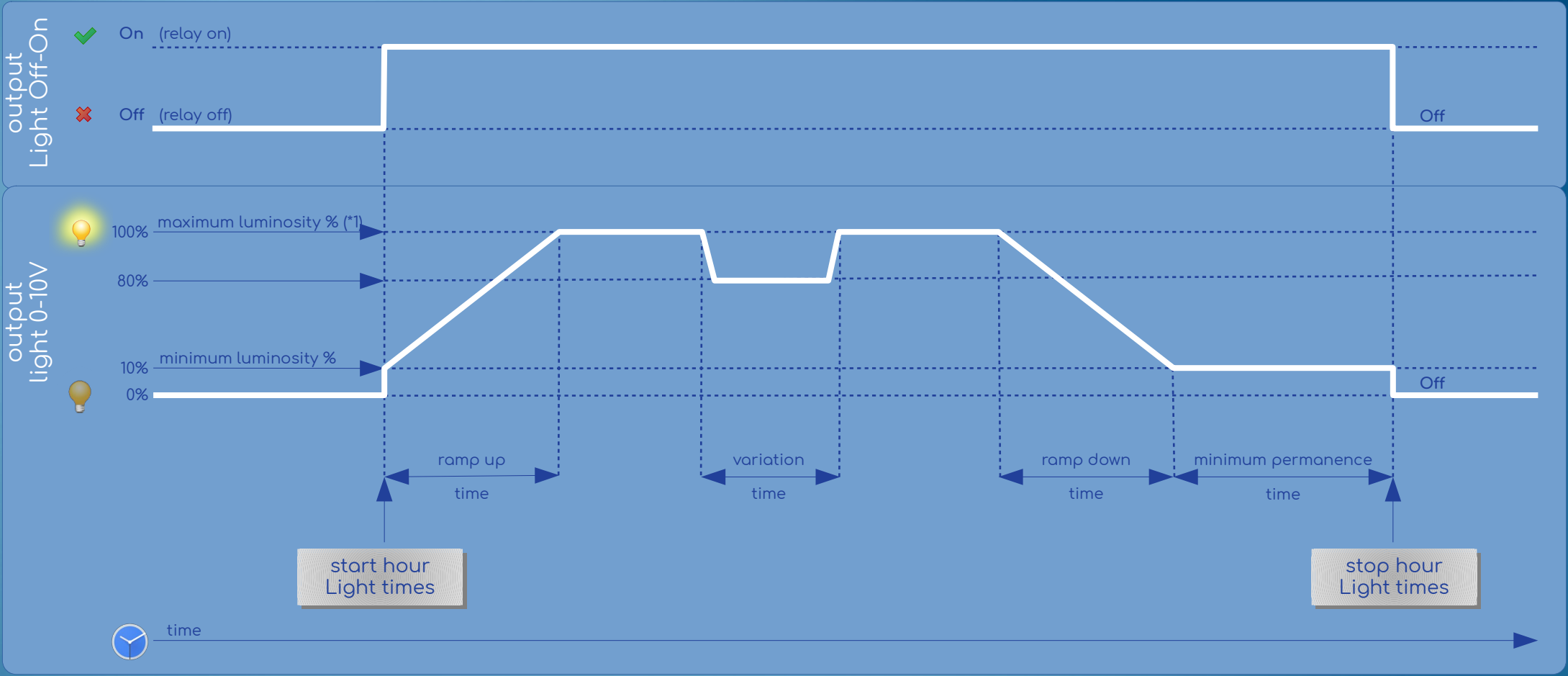


When light are on you can set a period of time when the light percentage can be changed to make meal easier.

Two extra daily timers are available to control lights by on-off system.

Manual operation with percentage setting.

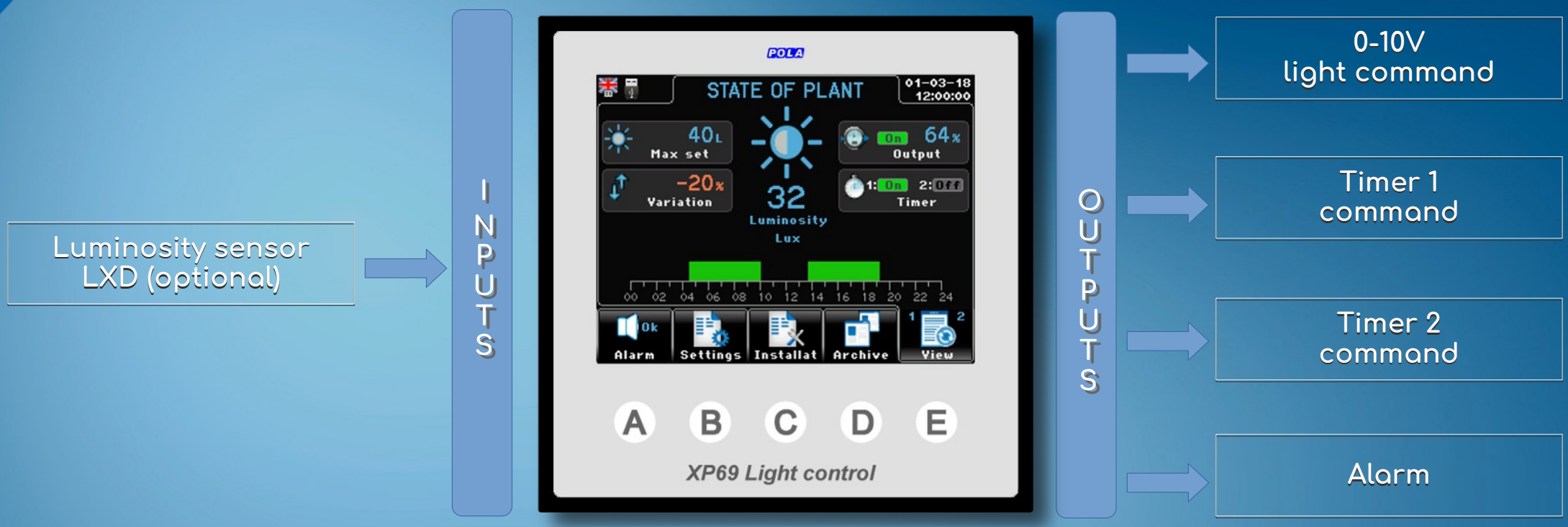
Operating diagram



- The hours related to 'start hour light times' and 'stop hour light times' are set in Settings> Starting times> Light times (you can set up to 8 periods).
- The hours related to 'variation times' are set in Settings>Starting times> Variation times (you can set up to 8 periods).
- The percentages of 'minimum luminosity %' 'maximum luminosity %' and the durations 'ramp up time' 'ramp down time' 'minimum permanence' are set in Install> Parameters brightness.

*1 The 'maximum luminosity' can be set as Lux if the LXD luminosity sensor was installed.

Inputs and outputs



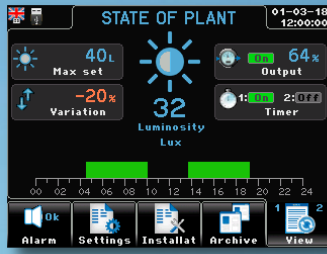
Other available connections

- **USB plug**
XP69 has a USB plug on the back.
When selecting the USBP option you can get a USB plug with a (IP65) protection cap externally mounted so you can access the USB without having to go to the back of the unit.
- **XNET**
Network connection card (optional) for XP69 processor ([see remote supervision](#))

Sample screenshots



Viewing screens



Viewing operating condition

| PROGRAM STATE | |
|------------------------------|---------|
| Lights period in progress | 1 |
| Variation period in progress | 1 |
| Lights state | Ramp up |
| Timer 1 period in progress | 1 |
| Timer 2 period in progress | 1 |

Viewing Program state

| INPUTS STATE | |
|-------------------------|------|
| LXD luminosity probe | |
| Luminosity low channel | 0.1V |
| Luminosity high channel | 0.1V |

Inputs state

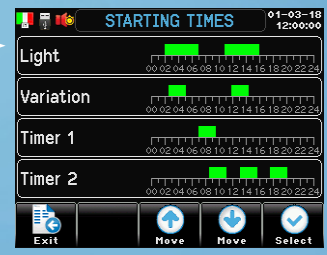
| OUTPUTS STATE | |
|---------------|------|
| Light | 0n |
| Timer 1 | 0n |
| Timer 2 | 0ff |
| ffu | 0ff |
| Alarm | 0ff |
| Light (0-10V) | 0.1V |

Output state



Settings screens

Settings selection



Starting times selection

| LIGHT TIMES | |
|---------------------|-------|
| Start hour period 1 | 02:00 |
| Stop hour period 1 | 07:00 |
| Start hour period 2 | 11:00 |
| Stop hour period 2 | 16:00 |

Schedule light times (up to 8 programmable periods)

Maximum luminosity setting



Archive screen

Archives to display selection

| Alarm type | Date | Hour |
|--------------------|----------|-------|
| Minimum luminosity | 15-01-18 | 10:54 |

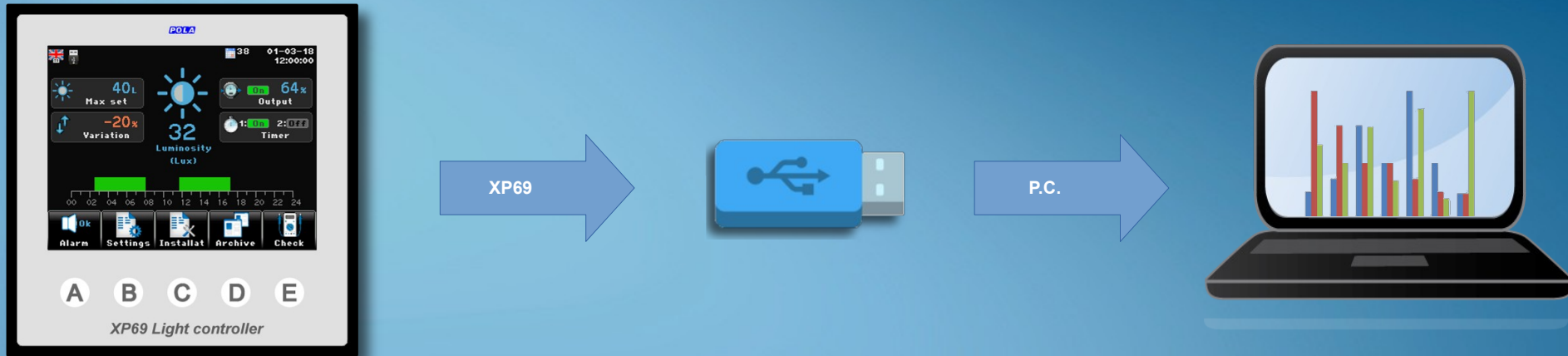
Alarms archive

| Event type | Date | Hour |
|-------------------|----------|-------|
| Power restored | 15-01-18 | 10:54 |
| Power failure | 15-01-18 | 09:23 |
| Manual test entry | 14-01-18 | 20:54 |
| Power restored | 14-01-18 | 16:43 |
| Power failure | 11-01-18 | 05:32 |
| Update procedure | 11-01-18 | 03:12 |
| Manual test entry | 09-01-18 | 05:32 |
| Power failure | 11-01-18 | 01:32 |

Events archive

Working time archive

Data transfer



The communication with the outside world is performed by USB key

→ **Export archives**

XP69 save in the USB memory a file containing all the day by day recorded data of the cycle.

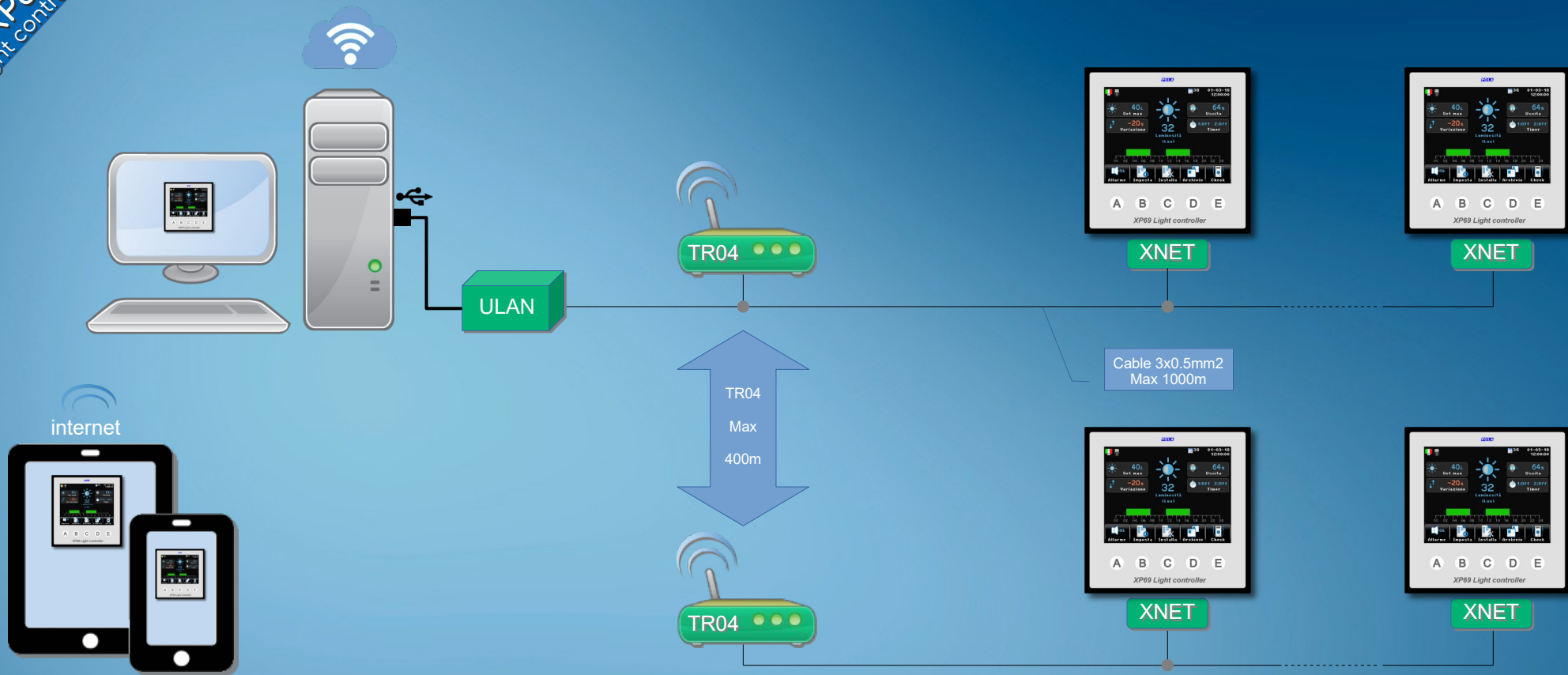
Connecting the USB key to a PC and by using the XP69 Dialogue software you can browse the recorded data in grid or graph formats.

→ **Importing / saving the setting**

You can save a file with all back-up infos on a USB file.

Saved settings can be uploaded on XP69 anytime by a user friendly procedure.

Remote supervision



Remote supervision of XP69 processors grants the full management of system by PC.

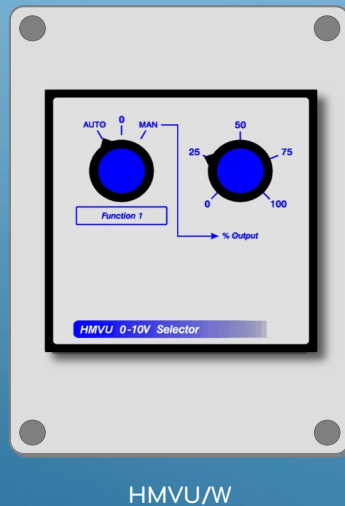
The XP69 Net Pro supervision software enables the full remote control of network connected processors. ULAN peripheral is connected to PC through a USB connection. HP69 – ULAN connection is done by a simple 3 wires cable. In all cases where ULAN cannot be cabled to XP69 we can supply TR04 radio-modems with a reach of 400 mt.

Components for creating a supervision system:

- ULAN: Network server Pc (with USB connection)
- XNET: Network adapter card (one for each XP69)
- TR04: Radio-modem 485 (optional, to be used only when it is not possible to use the cable)

Available options

| Model | Description |
|---------------------|--|
| XP69 | Lights dimming control (DIN96 panel mounting) |
| ----- Options ----- | |
| HMVU | 0-10V control manualizer |
| HMVU/W | 0-10V control manualizer (with IP54 box for wall mounting + gasket + transparent cover) |
| W01 | IP54 box for wall mounting + gasket + transparent cover |
| USBP | USB IP65 external plug (to be mounted externally, for access to the USB without the need to access the back of the XP69) |
| LXD | Light sensor 0 ...1000 Lux |
| HA20s | Power pack 20V DC for LXD luminosity sensor |
| XNET | Network nodal point |
| ULAN | Network server Pc (with USB connection) |
| TR04 | Radio-modem 485 (IP55 junction box with power supply 230/12v) |



LXD



USBP



TR04



HA20s



ULAN



XNET

POLA

www.pola.it

40th

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