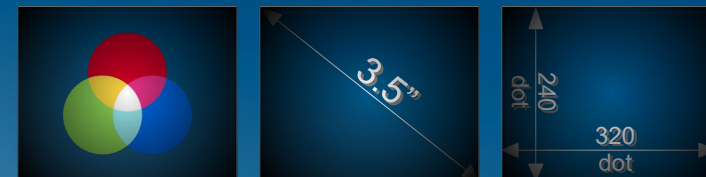


## main feature

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

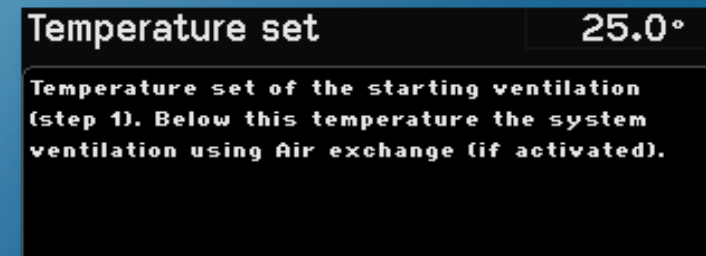
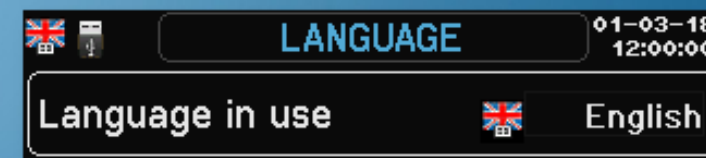


The user interface is easy and friendly. The easy touch screen system gives both the typical "easy to use" approach of a touch screen system and the strength and mechanical protection of a polycarbonate IP54 keyboard.

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.



# XPSF pig house environmental control unit



XPSF manages the climate control of the Ventilation system (0 ... 100% speed adjustment), of the Heating system of the Flaps (air inlet).

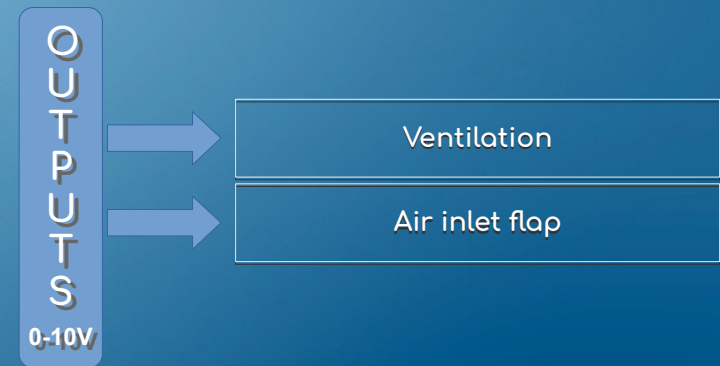
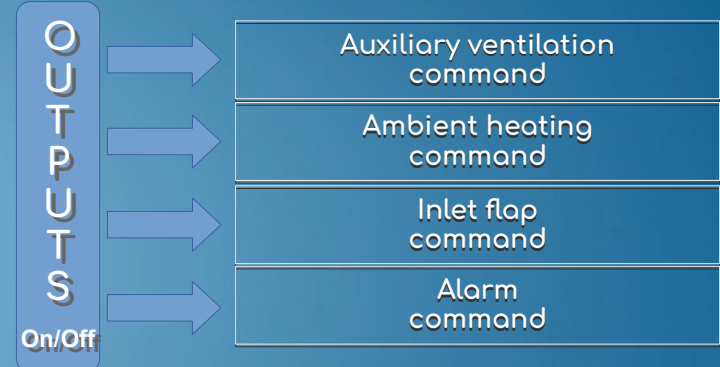
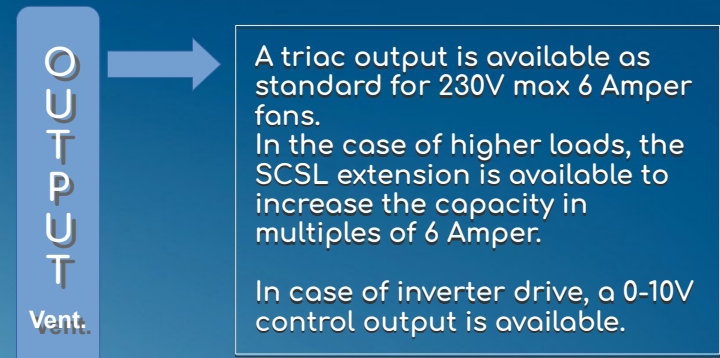
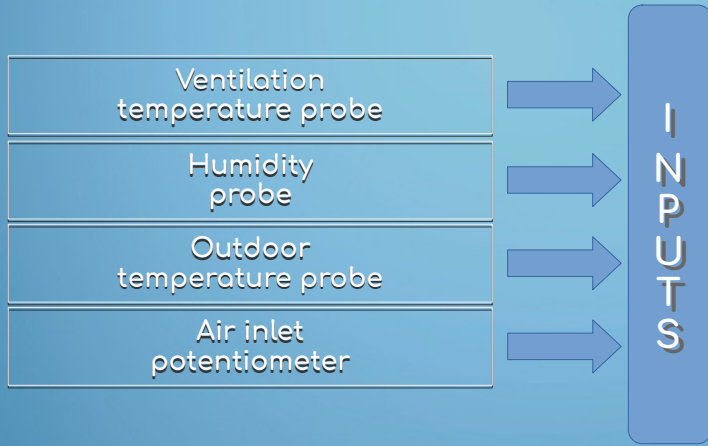
In addition to ambient temperature, ventilation can be affected by humidity and external temperature.

You can program the operating calendar so that the program automatically adapts to the animal growth curve day by day.

All the climate parameters controlled by the XPSF are recorded and can be exported via USB key.

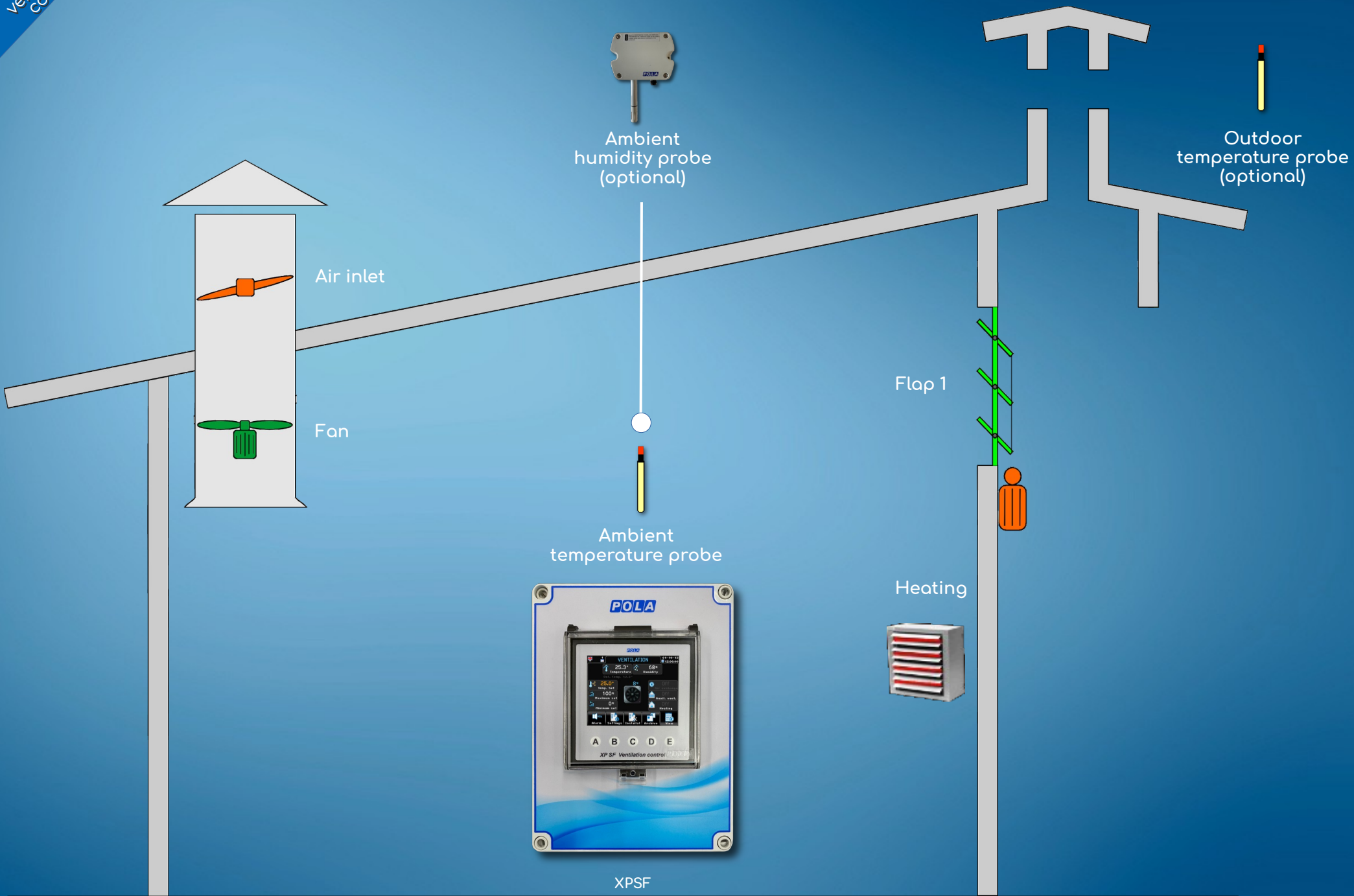
Remote supervision ensures complete PC management of all XPSF connected in the network.

# inputs and outputs



- Other available connections
- USB plug  
XPSF has a USB plug inside.
- XNET  
Network connection card ( optional ) for XPFC processor (see remote supervision).

# delivery room / weaning example



# XPSF records all the parameters of the environment



**AMBIENT ARCHIVE** 01-10-13 12:00:00

Archive day: 8      Archive date: 26-09-19

	Min	Medium	Max
Temperature	23.1°	24.1°	26.5°
Humidity	56%	61%	68%
Outside temperature	7.1°	13.2°	16.9°

Buttons: Exit, Graphics, Day (-), Day (+)

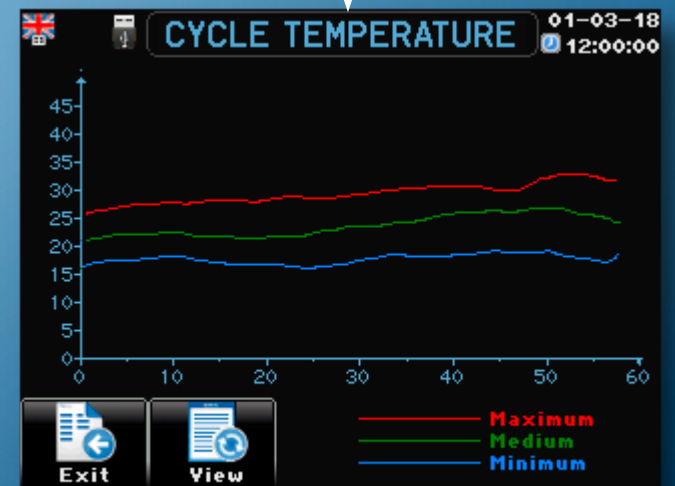


Multiple levels of registrations:

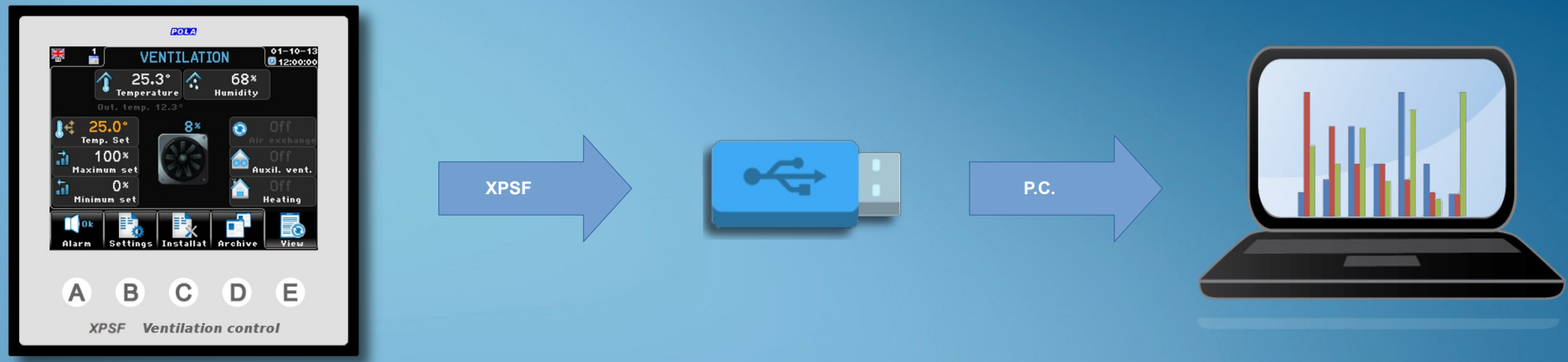
- Daily data, a recording for each day of the cycle
- Data of every single day with sampling every 15 minutes
- Full cycle data

The daily archive records the following parameters:

- Temperature
- Humidity
- Outside temperature



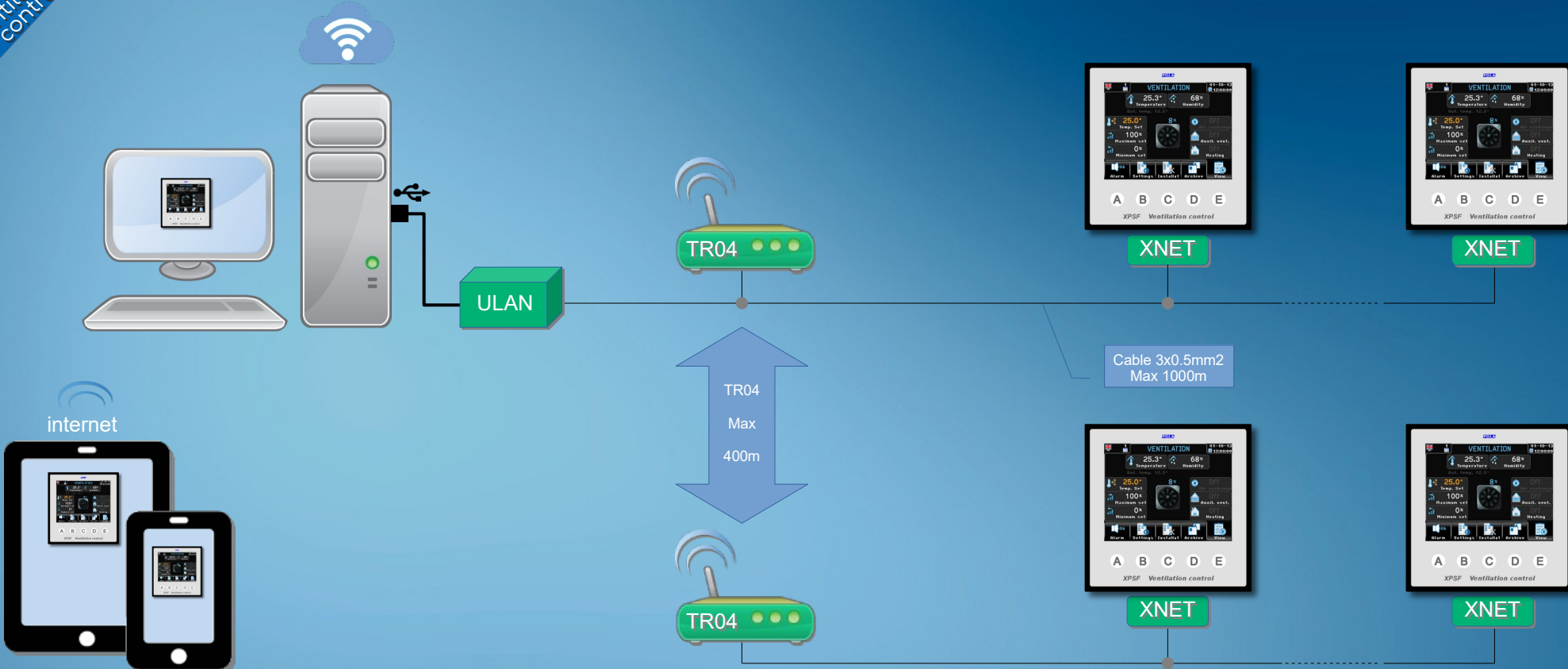
# data transfer



The communication with the outside world is performed by USB key.

- **Export archives**  
XPSF 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 XPSF 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 XPSF anytime by a user friendly procedure.

# remote supervision



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

The XPSF Net Pro supervision software enables the full remote control of network connected processors. ULAN peripheral is connected to PC through a USB connection. XPSF – ULAN connection is done by a simple 3 wires cable. In all cases where ULAN cannot be cabled to XPSF 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 XPSF)
- TR04: Radio-modem 485 (optional, to be used only when it is not possible to use the cable)



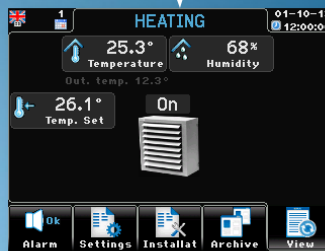
# sample screenshots



view  
screens



ventilation  
view



heating  
view



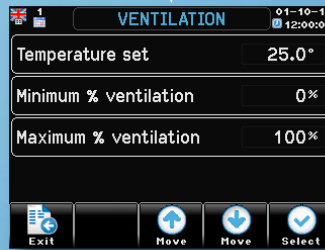
inlet flap  
view



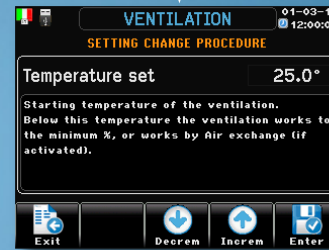
setting  
screens



settings  
selection



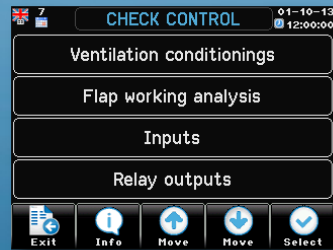
temperature set  
selection



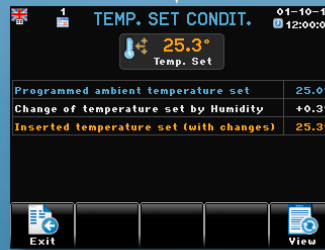
temperature set  
settings



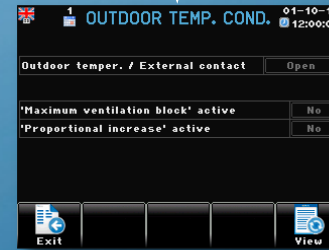
check control  
screens



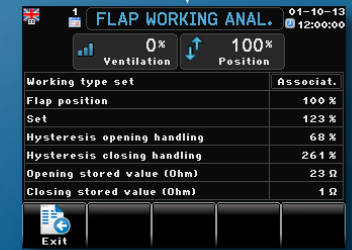
check ventilation  
selection



temperature set  
conditioning



outdoor temperature  
conditioning



inlet flap  
working analysing

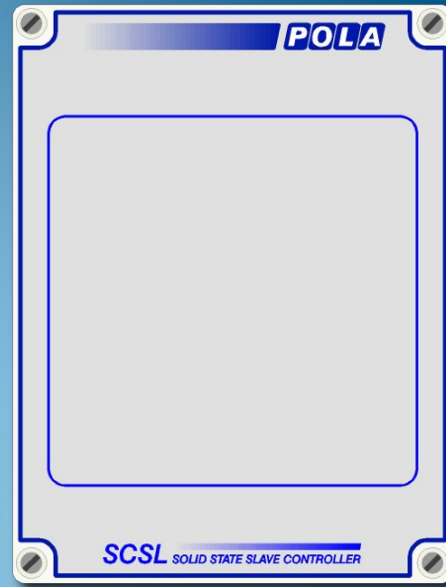
## options available

<i>Model</i>	<i>Description</i>
XPSF	Pig house environmental control unit
----- <i>Options</i> -----	
SX	Temperature probe. XPSF is supplied with 1 SX: any other probe must be ordered separately
RHR	Humidity probe 0...100%
HA20s	Power supply for RHR
PT	Flap response potentiometer (1 KOhm)
USBP	External IP65 USB socket (to be mounted externally, to access the USB without the need to access inside the XPSF)
SCSL	6A power extension module for continuous control of single-phase fans
FX01	Drive electrical box for three-phase gear-motor (specify motor power), with 1 SX temperature probe included
CSTX	Thermal trip contact (FX01 option). The intervention of the thermal shutter flap is signaled and managed by the XPSF
HMVU	0-10V gear-motor / ventilation control manualizer
HMVU/W	0-10V gear-motor / ventilation control manualizer (with IP54 box for wall mounting + gasket + transparent cover)
XNET	Network nodal point
ULAN	Network server Pc (with USB connection)
TR04	Radio-modem 485 (IP55 junction box with power supply 230/12v)

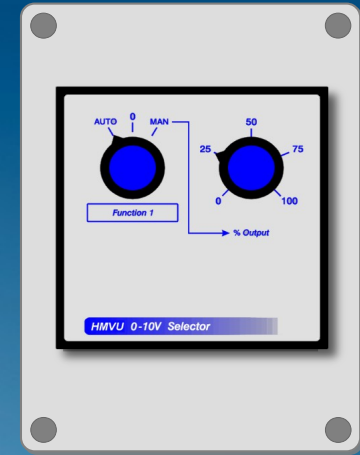
# options available



FX01



SCSL



HMVU/W



SX



RHR



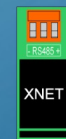
PT



HA20s



ULAN



XNET



USB



TR04

# XPSF performance comparison with Our other models

Performance	Models					
	XPSG	XPSF	SC6G	SC6F	SC6E	SC6D
Color graphic display	Yes	Yes	No	No	No	No
Fan speed triac control 230V 6A (on board)	No	Yes	Yes	Yes	Yes	Yes
0-10V inverter output	Yes	Yes	Yes	Yes	Yes	Yes
Auxiliary ventilation	Yes	Yes	Yes	Yes	No	No
Tachometer input	Yes	No	No	No	No	No
Ambient heating	Yes	Yes	Yes	Yes	Yes	Yes
Floor heating	Yes	No	Yes	No	No	No
IR lamps heating	Yes	No	Yes	Yes	Yes	No
Flap	Yes (2)	Yes (1)	Yes (2)	Yes (1)	No	No
Cooling	Yes	No	Yes	No	No	No
Humidity probe (provision)	Yes	Yes	Yes	Yes	No	No
Outdoor temperature probe (provision)	Yes	Yes	Yes	Yes	No	No
CO2/NH3 probes (provision)	Yes	No	No	No	No	No
Alarm	Yes	Yes	Yes	Yes	Yes	Yes
Growth curve calendar	Yes	Yes	Yes	Yes	No	No
Daily data archive	Yes	Yes	Yes	Yes	No	No
Export / import data with USB stick	Yes	Yes	No	No	No	No
PC network connection	Yes	Yes	No	No	No	No

**POLA**

[www.pola.it](http://www.pola.it)

40<sup>th</sup>

40 YEARS OF INNOVATION