XP line
small size, great power

XP51 Birds-scale

POLA

Main feature

The main feature of the XP51 is the color display screen (3.5") with 320x240 dots resolution with led backlighting. **XP51** 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.
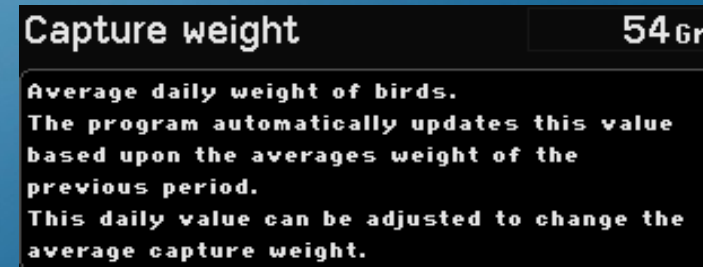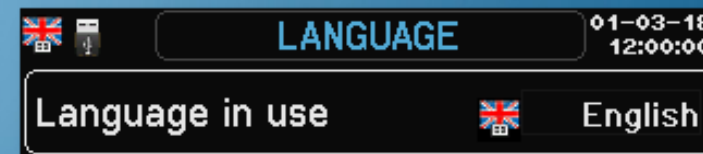
Birds-scale

XP51 makes the weight control by a multi-weighing system.
For each weighed bird the program makes an automatic tare before weighing ther next bird.
By using the multi-tare system bird weighing is done even if the bird does not get off the scale.

Management of water and feed consumptions.
By connecting the water meter and the feed meter you can record the daily consumption of water and feed. Beside this you also record the total consumptions of the cycle.

Weighing plates:
a specific plate for each type of animal to be weighed

XP51
birds-scale

PWS0
Floor bird scale
for parents

PWS1
Suspended bird scale
for chicks

PWS2
Suspended bird scale for
turkeys

Why an suspended/oscillating weighing plate?

- The plate can be adjusted to be close to the litter so birds a can easily jump on it.
- The oscillating plate prevents birds to stay too long on the plate (or even to get sleep on it) riducing the number of daily measurements.
- The round plate (diam 76 for chicks and 98 for turkeys) makes easy to birds to jump on it.
- The connecting cable is NOT on the floor, preventing wear off and cuttings.
- The load cell is well protected from moisture and dust.
- The mechanical part of the weighing system is easily removed at end of cycle.
- It's well visible in the shed, preventing bumps and crashes.
- Any height can be reached by adding extensions.

Capture system mode

XP51 birds-scale

BIRD WEIGHING SYSTEM 01-03-18 12:00:00

SETTING CHANGE PROCEDURE

Type of capture — Autom.

Automatic: the capture weight is calculated according to the daily average reading and automatically updated at each capture.

Target: the capture weight is the daily target weight of birds.

Exit — Decrem — Increm — Enter

BIRD WEIGHING SYSTEM 01-03-18 12:00:00

SETTING CHANGE PROCEDURE

Type of capture — Target

Automatic: the capture weight is calculated according to the daily average reading and automatically updated at each capture.

Target: the capture weight is the daily target weight of birds.

Exit — Decrem — Increm — Enter

Automatic weight capture:

capture weight is calculated according to the daily average and it's automatically updated after each capture.

Target weight capture:

when both males and females are raised in same shed you can (by installing 2 x XP51) differentiate the capture weight of each weigh according to the target weight. So one weigh will weight the males and the other the females.

Inputs and outputs

INPUTS		OUTPUTS
Birds-scale load cell		
Feed counter		Alarm
Water counter		

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AVERAGE WEIGHT   01-03-18 12:00:00

5 Age animals   36 Grams   1432 Weighing N°

54 Gr Target   1 Gr Daily incr.

0 Gr Deviation   52 Gr Weight plate

0.0% Deviation   Males Sex

Alarm Settings Installat Archive View

A B C D E

XP51 Birds scale

Other available connections

→ **USB plug**
XP51 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 **XP51** processor (see remote supervision)

Sample screenshots

Viewing screens

AVERAGE WEIGHT — 01-03-18 12:00:00
5 Age animals | 36 Grams | 1432 Weighing N°
54 Gr Target | 1 Gr Daily incr.
0 Gr Deviation | 52 Gr Weight plate
0.0% Deviation | Males Sex
Ok Alarm | Settings | Installat | Archive | View

Viewing
operating condition

WEIGHINGS ANALISYS — 01-03-18 12:00:00
Number of weighings | 1
Last capture | 53Gr
Partial average | 54Gr
Partial weighings | 168
Capture time | 1.2"
Minimum capture | 60%
Maximum capture | 94%
Weight on the plate | 52Gr
Ok Alarm | Settings | Installat | Archive | View

Viewing
operating condition

INPUTS — 01-01-13 17:03:59
Water counter input | Open
Feed counter input | Closed
Exit

Viewing
inputs state

OUTPUTS STATE — 01-01-13 17:03:59
Alarm | Off
Exit

Viewing
output state

Settings screens

SETTINGS — 01-03-18 12:00:00
Capture weight
Target curves
Starting cycle
Exit | Move | Move | Select

Settings
selection

BIRDS WEIGHING — 01-03-18 12:00:00
SETTING CHANGE PROCEDURE
Capture weight | 54 Gr
Average daily weight of birds.
The program automatically updates this value
based upon the averages weight of the
previous period.
This daily value can be adjusted to change the
average capture weight.
Exit | Decrem | Increm | Enter

Settings
capture weight

BIRDS WEIGHING — 01-03-18 12:00:00
SETTING CHANGE PROCEDURE
Target weight variation % | +0%
In case growth is not according to the target
weight as programmed in the calendar, this %
discrepancy enables to correct the capture
weight without having to correct the growth
curve.
Exit | Decrem | Increm | Enter
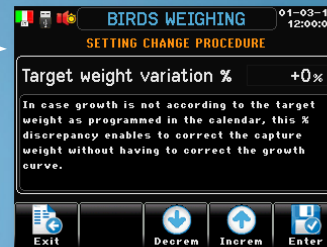
Settings
calendar target weight

STARTING CYCLE — 01-03-18 12:00:00
Age of animals | 0
Average weight | 42 Gr
Target curve | Females
Exit | Move | Move | Select
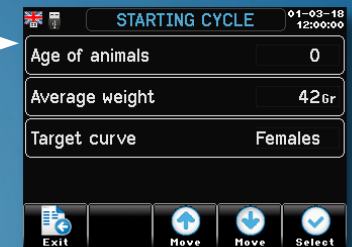
Start cycle
sequence

Archive screen

ARCHIVE — 01-03-18 12:00:00
Birds weighing
Feeding
Cycle total
Alarms
Exit | Move | Move | Select

Archive to display
selection

WEIGHINGS ARCHIVE — 01-03-18 12:00:00
54 Peso medio (Gr) | 1432 Weighing N°
54 Gr Target | 1 Gr Daily incr.
0 Gr Deviation | 4 Day
0.0% Deviation | 01-03-18 Date | Males Sex
Exit | Graphs | Fork | Day (−) | Day (+)

Birds-scale
archive

BIRD WEIGHING — 01-01-13 17:03:59
0 | 20 | 40 | 60
Exit

Birds-scale
chart

FEEDING ARCHIVE — 01-03-18 12:00:00
158 Lt Water
75 Kg Feed | 4 Day
0.47 Water/Feed | 01-03-18 Date
Exit | Graphs | Day (−) | Day (+)

Feeding
archive

Data transfer

From XP51

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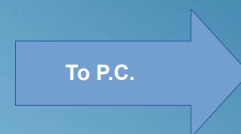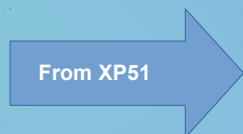
The communication with the outside world is performed by USB key

➜ **Export archives**
XP51 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 suing the **XP51 Dialogue** software you can browse the recorded data in grid or graph formats.
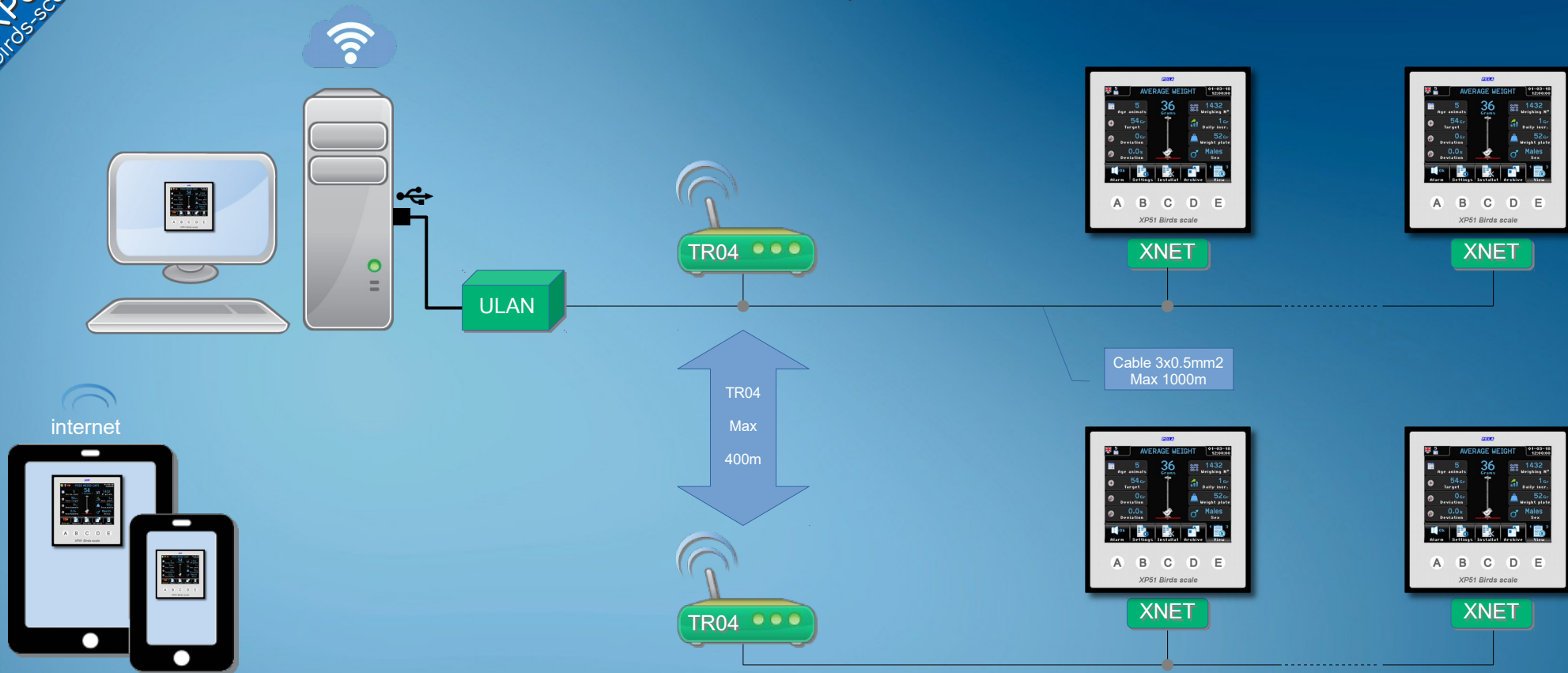
➜ **Importing / saving the setting**
You can save a file with all back-up infos on a USB file.
Saved settings can be uploaded on **XP51** anytime by a user friendly procedure.

Remote supervision

XP51 birds-scale

ULAN

TR04

XNET

TR04 Max 400m

Cable 3x0.5mm2 Max 1000m

internet

Remote supervision of **XP51** processors grants the full management of system by PC.

The **XP51 Net Pro** supervision software enables the full remote control of network connected processors.
ULAN peripheral is connected to PC through a USB connection. HP51 – **ULAN** connection is done by a simple 3 wires cable.
In all cases where **ULAN** cannot be cabled to **XP51** 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 **XP51**)
→ **TR04**: Radio-modem 485 (optional, to be used only when it is not possible to use the cable)

Available options

XP51 birds-scale

Model	Description
XP51	Birds-scale controller (DIN96 panel mounting)
-- *Options* --	
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 XP51)
PWS0	Floor bird scale for parents
PWS1	Suspended bird scale chicks
PWS2	Suspended bird scale for turkeys
CWD	Water counter
XNET	Network nodal point
ULAN	Network server Pc (with USB connection)
TR04	Radio-modem 485 (IP55 junction box with power supply 230/12v)

XP51   W01   PWS0   PWS1   PWS2   CWD   ULAN   XNET

USBP   TR04

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