

Miranda Automatic Control Boxes

Electric and control boxes for *Mirafeed* feeders

Miranda ACB Micro

Basic control

Miranda ACB Lite

Medium control

Miranda ACB Feed

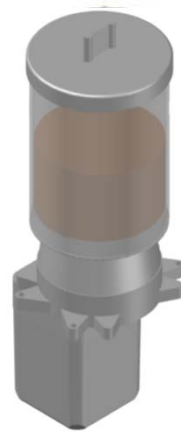
High control

Miranda ACB Feed + ***Miranda*** SDA

Full control

Miranda ACB Micro

Miranda ACB Micro



LARVAL REARING
AND
NURSERY



NURSERY
AND
PREONGROWING

Local configuration
Monochrome display
Main ON/OFF switch
SETTINGS:

- Group temporary window (start and stop interval)
- Individual timer for feeding (ON in seconds, OFF in minutes)

Miranda ACB Lite

Local configuration

PLC with monochrome touch screen 3,8", 3-color backligh

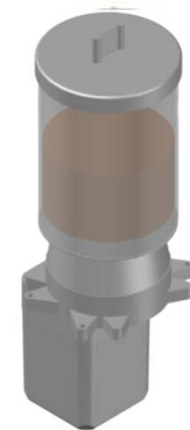
Main ON/OFF switch

Real time clock

SETTINGS:

- Individual temporary window for feeders (start and stop hours with real time clock)
- Individual number of doses
- Individual duration of doses in seconds (0.1 sec. resolution)

Miranda ACB Lite



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Miranda ACB Feed

Miranda ACB Feed



LARVAL REARING
AND
NURSERY



NURSERY
AND
PREONGROWING

Local configuration

Internet remote maintenance

PLC with colour touch screen 7" IP66

Main ON/OFF switch

Real time clock

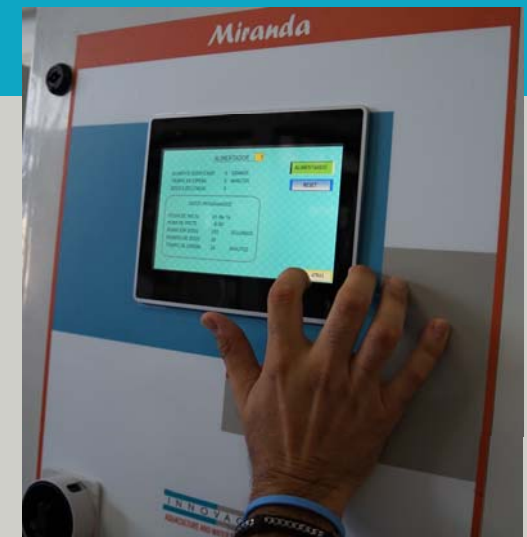
SETTINGS:

- Individual temporary window for feeders (start and stop hours with real time clock)
- Individual number of doses
- Individual doses: duration (0.1 sec.) or grams (0.1 gr.)
- Feeder calibration wizard

OPTIONAL

Auto-demand feeding control using INNOVAQUA's sensors (electronic pendulum, infrared, stretching,..)

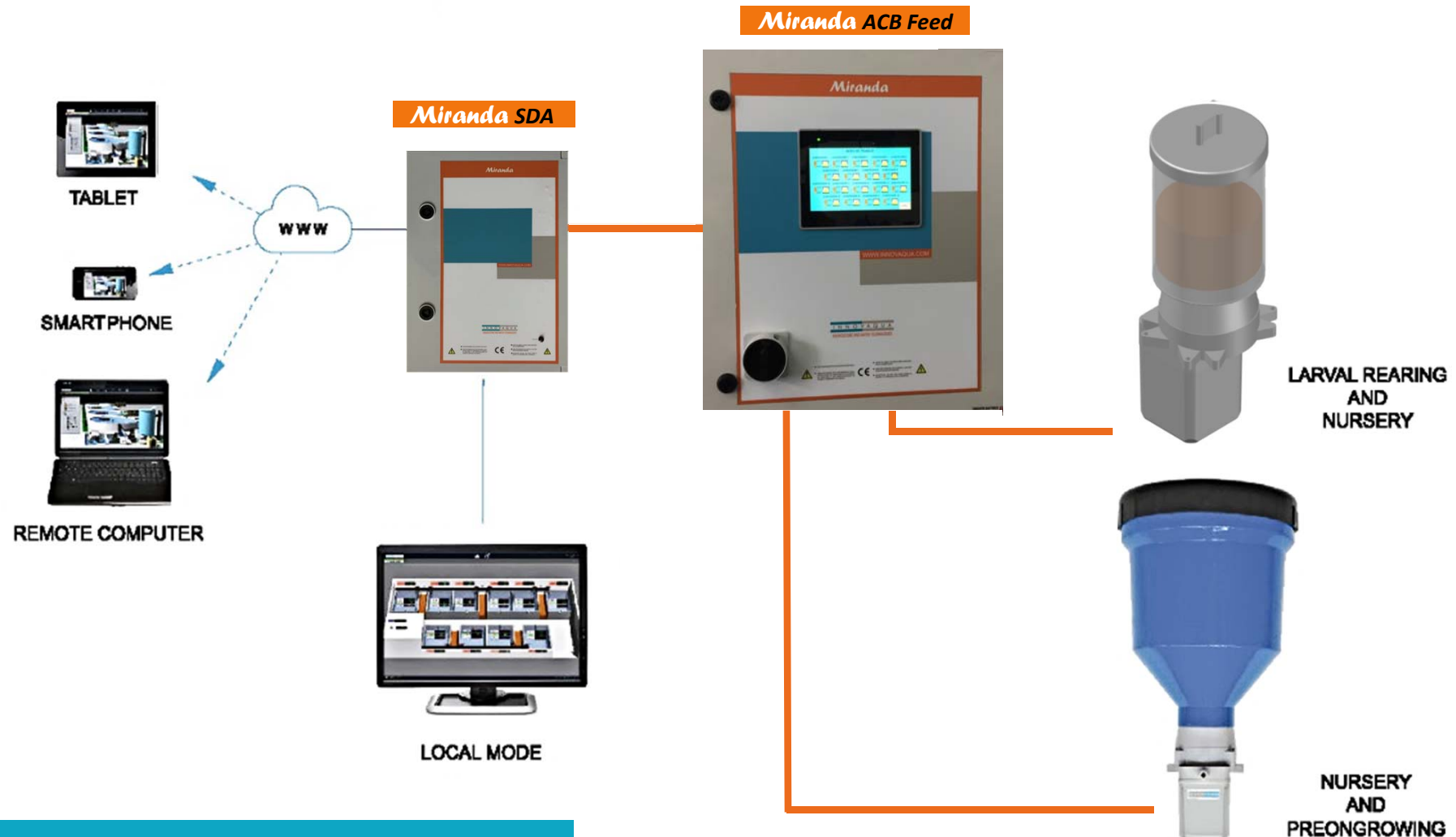
Miranda SDA compatible



Miranda Automatic Control Boxes

Miranda AEB	Micro	Lite	Feed
Configuration	Local	Local	Local
Remote maintenance	NO	NO	YES
Display	Mono	Mono 3,8"	Colour 7"
Touch screen	NO	YES	YES
Real Time clock	NO	YES	YES
Temporary window	Group	Individual	Individual
Feeding	Timer ON/OFF	Doses (time)	Doses (time/grams)
Feeder calibration wizard	NO	NO	YES
Auto-demand control	NO	NO	OPTIONAL
Miranda SDA Compatible	NO	NO	YES

Mirafeed controlled by *Miranda SDA*



Outstanding Fish Feed Management

Miranda SDA

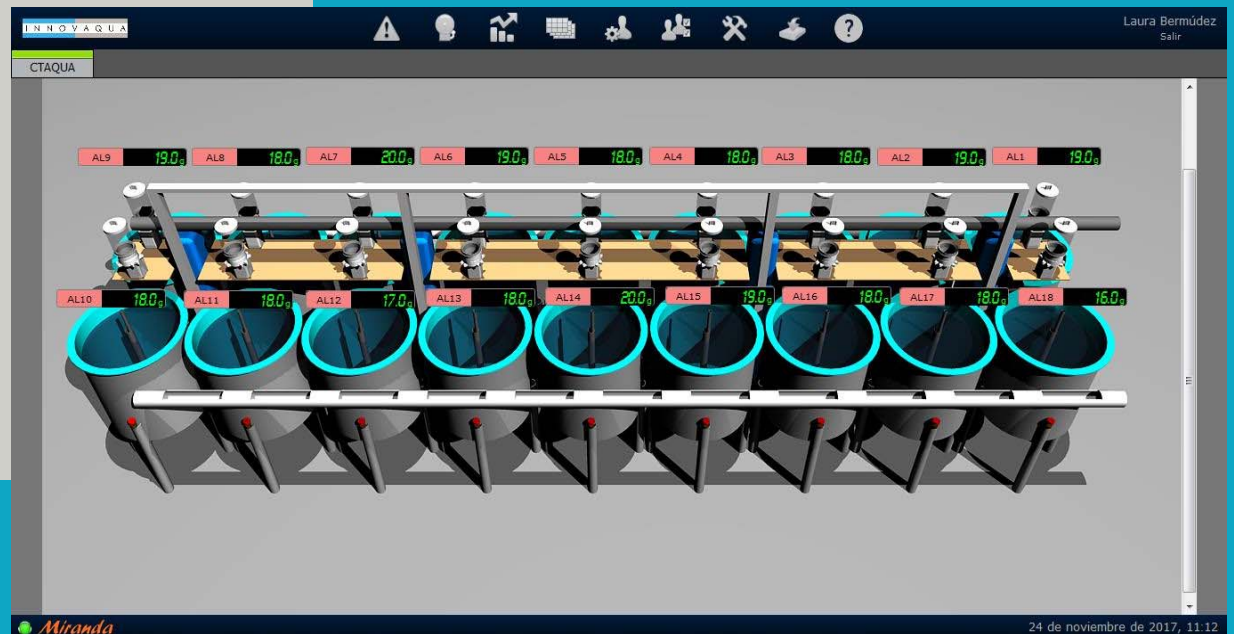
Rugged Supervisor Data Acquisition

- Local (LAN) or remote (Internet) Access
- Parameters and status display in real-time
- Management of historical data graphs
- Information export in CSV file
- Alarm management (SMS/e-mail)
- Automatic Back-up in local removable USB device
- Key-code system (easy replacement)
- MySQL database engine
- APACHE web server with php technology



Includes FEEDER MODULE

Needs *Miranda* ACB Feed



Miranda SDA Feeder module

Remote feeders programming and supervision

Individual or group of **feeders program**:

- Daily food amount
- Number of daily doses
- Time of first and last dose
- Feeding table configurable by user (species, culture phase, size of pellet,...)

Automatic calculation of feeding based in custom growing tables configurable by user

Special Larvae: Feeding calculation using volume and days post hatching (dph)

Feeding correction (samples, mortality...)

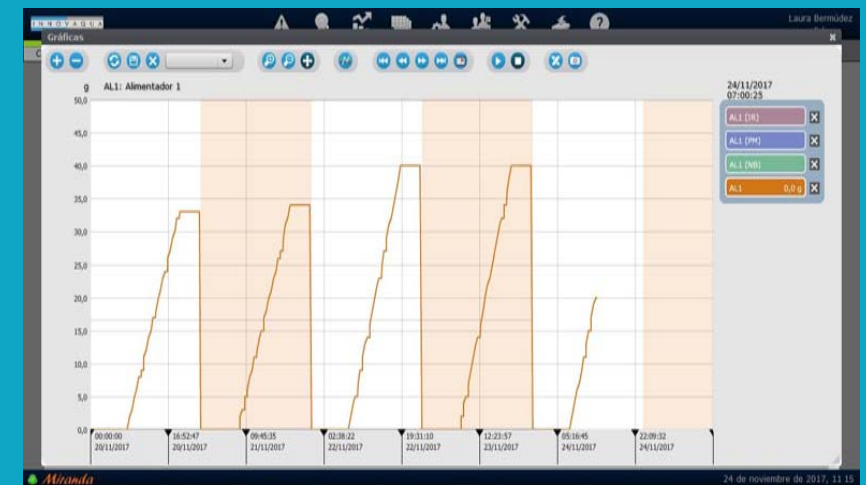
Possibility of **probes integration** with feeding adjust:

- Temperature: for automatic growing prediction and feeding tables
- Oxygen: for feeding suspension if low levels

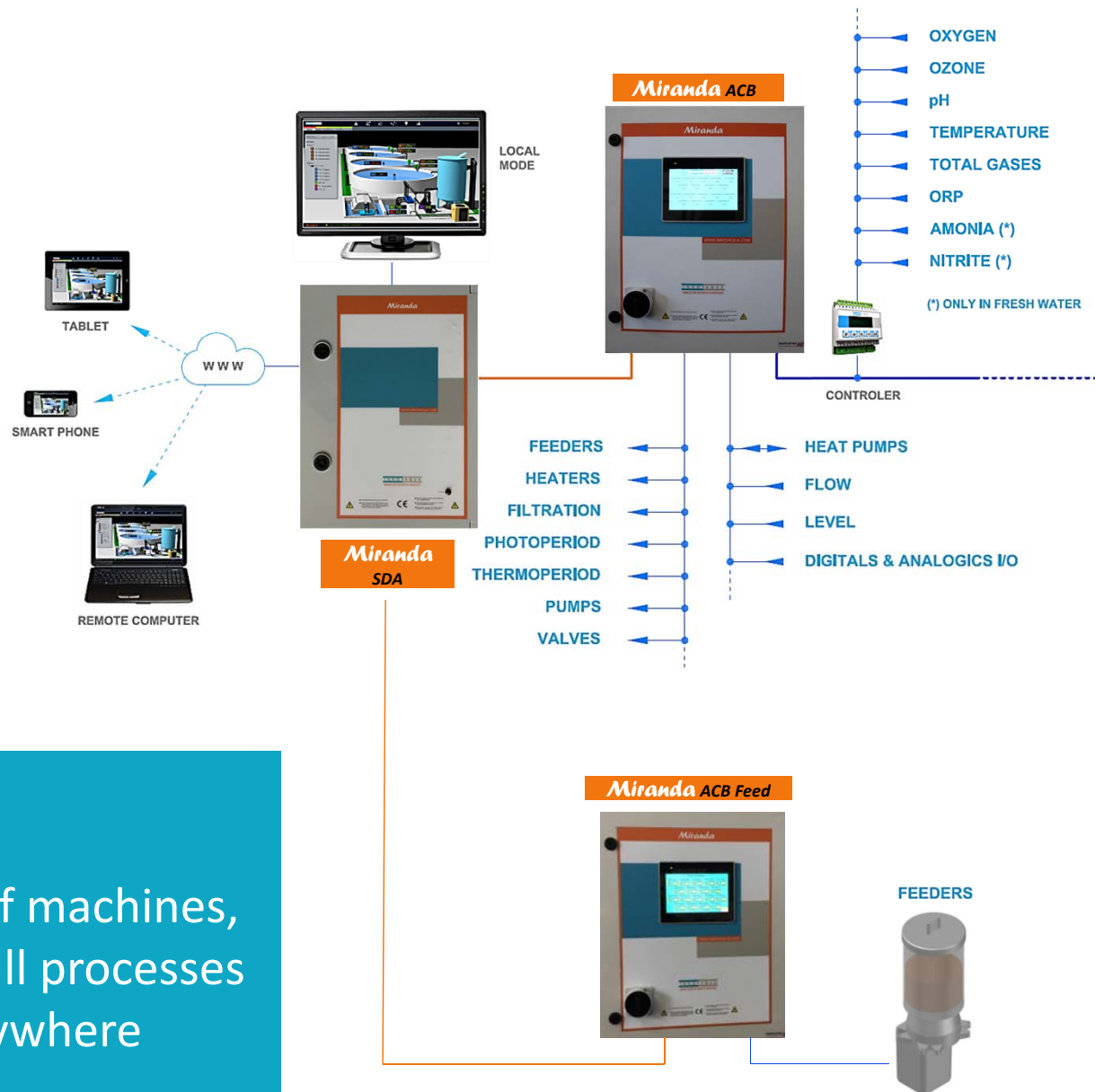
Access to the records to see **historical data** with graphic interface.



Fecha	Hora 1ª dose	Hora UP dosis	Pulsos	NP dosis	Temperatura (°C)	Alimento (g)	Corrección (%)
13-11-2017	15:30	19:30	growout_2	8		Manual 15.0	0
14-11-2017	08:30	19:30	growout_2	22		Manual 31.0	0
15-11-2017	08:30	19:30	growout_2	22		Manual 32.0	0
16-11-2017	08:30	19:30	growout_2	22		Manual 32.0	0
17-11-2017	08:30	19:30	growout_2	22		Manual 32.0	0
18-11-2017	08:30	19:30	growout_2	22		Manual 33.0	0
19-11-2017	08:30	19:30	growout_2	0		Manual 0.0	0
20-11-2017	08:30	19:30	growout_2	22		Manual 33.0	0
21-11-2017	08:30	19:30	growout_2	22		Manual 34.0	0
22-11-2017	08:30	19:30	growout_2	22		Manual 40.0	0
22-11-2017	08:30	19:30	growout_2	33		Manual 40.0	0



Miranda Monitoring & control system for aquaculture



Full control of machines,
sensors and all processes
from anywhere

Designed and
manufactured in the EU
by

I N N O V A Q U A