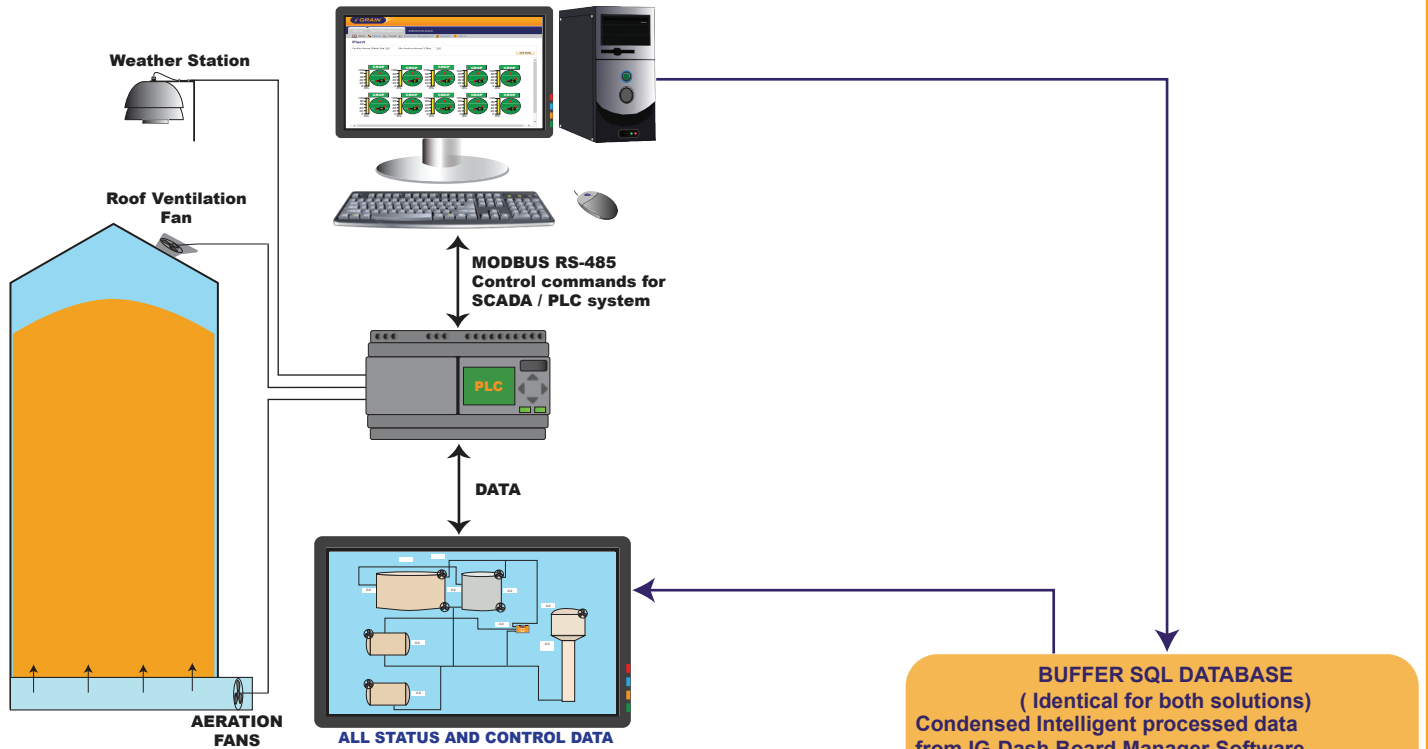


iGrain Integrated PLC/SCADA Solutions



Technical specifications:

Communicate via RS-485, ASCII from the PC with the iGRAIN MANAGER SOFTWARE.
 Communicate via LAN, Internet from PC with SQL Database.
 Operates in either manual or automatic mode via the automatic aeration control software.

Data transfer: RS-485 Is sent automatically with a pre-programmed time interval, (20 to 60 min).
 The data string may be polled from the PLC at any time via RS-485,ASCII.

Data Bus: LAN Data can be polled from buffer database at any time via LAN.
 RS-485, ASCII, at 9.6 KB baud rate.
 Internet

BUFFER SQL DATABASE
 (Identical for both solutions)
 Condensed Intelligent processed data from IG-Dash Board Manager Software,
 For use in SCADA for overview
 For use in PLC for Aeration Control purposes:

Silo Data:
 Silo Name (included Commodity Type)
 Timestamp
 Temperature data (Max, Average, Min in each silo)
 Silo fill percentage
 CO2 Value
 Grain Moisture

Control:
 Main Aeration Fan's ON/OFF
 Roof Exhaust Fan's ON/OFF

Weather Data:
 Weather Station name
 Timestamp
 Temperature
 Humidity

