Version - March 2010

Part Number - 39-0118

INDEX

GOOD PRACTICE: Control, Power and Data Cables and Conduit.

■ Cables must be kept as short as possible running directly from point to point. Cut out any excess cable rather than leaving it coiled.

■ Where ever possible cables should be contained in a waterproof conduit using the correct csa cable specified in the diagrams.

■ Entries must be made into the bottom of power supply or control casings but never into the top. This will invalidate the warranty.

■ Strip existing cables back to bright copper before connection.

■ Keep multicore cables away from other cables especially those carrying mains or heavy currents. Cross only at 90° where necessary and do not enclose in conduit with other cables.

■ Keep feeder cables and coaxial cables in separate conduits.

■ Make sure diodes are fitted to all feeders, pulsators and solenoid valve. These should be fitted as close as possible to feeder motor or solenoid coil.
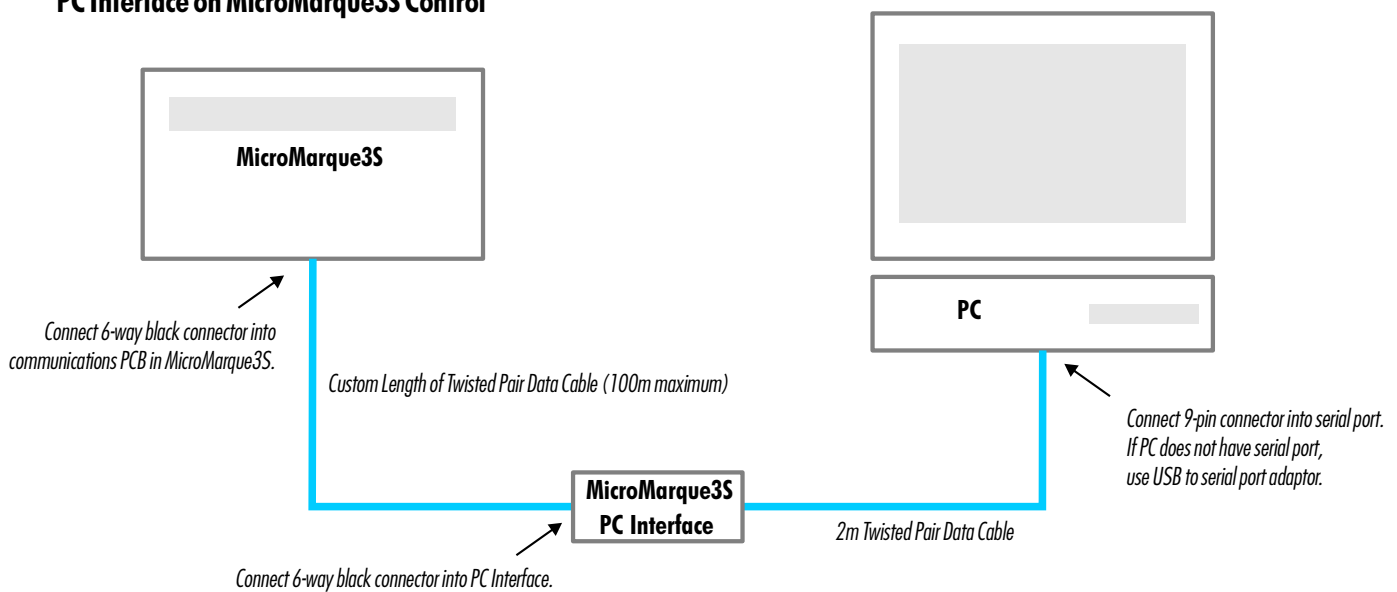
The PC Interface

The PC Interface is available in two versions - one for the MicroMarque3S control and one for the Out of Parlour console. Please note that they are not interchangeable and have different connectors.

WARNING: *DO NOT RUN TWISTED PAIR DATA CABLE NEXT TO MAINS CABLES OR CABLES CARRYING HIGH CURRENT AS WILL CAUSE INTERFERENCE AND SYSTEM WILL NOT FUNCTION CORRECTLY.*

PC Interface on MicroMarque3S Control

MicroMarque3S

PC

Connect 6-way black connector into communications PCB in MicroMarque3S.

Custom Length of Twisted Pair Data Cable (100m maximum)

MicroMarque3S PC Interface

Connect 6-way black connector into PC Interface.

2m Twisted Pair Data Cable

Connect 9-pin connector into serial port. If PC does not have serial port, use USB to serial port adaptor.

PC Interface on Out of Parlour Console

Connect into socket on back of Out of Parlour Console.

Out of Parlour Console

PC

Out of Parlour PC Interface

2m Twisted Pair Data Cable

2m Twisted Pair Data Cable

Connect 9-pin connector into serial port. If PC does not have serial port, use USB to serial port adaptor.

MicroMarque3S PC Interface Connections

Connections to the MicroMarque3S are made via a Distribution Board fitted to the base of the casing. This cable returns the Meridian Bus data to the distribution board from where it is directed to any other systems by twisted pair cable (i.e. Auto-ID, Micro Milk Meter, Pegasus Sorting Gate, PC Interface etc). This cable (supplied) is specifically for high speed communications and must not be replaced by any other. Follow the colour codes.

N/C
N/C
Black x 2
Red
White
N/C

Meridian Bus
to PC Interface
Use twisted pair
cable supplied

Lift Off Connectors

N/C
Green

Yellow
Black
Red
Blue

White
N/C

Green
Yellow
Black
Red
Blue
White

MicroMarque3S Control Circuit Board Connector: Meridian Bus
The Meridian inter-connections between the various control circuit boards are realised as a six core cable.
They are factory fitted and will not normally need to be removed.
Connector orientation and cable colours are important.

MicroMarque3S PC Interface Wiring Diagram

Connector in MicroMarque3S:
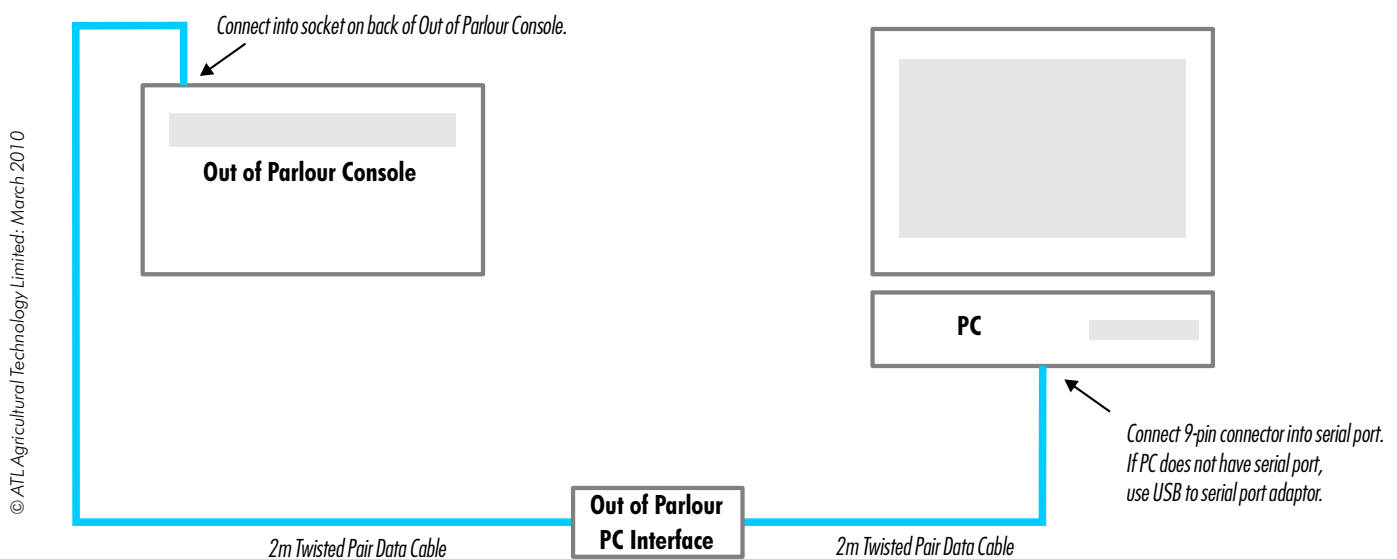
Meridian Bus Cable - Variable Length

WARNING: DO NOT RUN TWISTED PAIR DATA CABLE NEXT TO MAINS CABLES OR CABLES CARRYING HIGH CURRENT AS WILL CAUSE INTERFERENCE AND SYSTEM WILL NOT FUNCTION CORRECTLY.

NC
White
Red
2 x Black
NC
NC

Black (B)
Red
Black (A)
White

Meridian Bus Cable - 2m Length

1

Female 9 Pin 'D' Connector to PC:
Viewed from solder side
Pins 4 and 6 linked
Pins 7 and 8 linked

- Header: PC INTERFACE: 4
- Title: Out-OF-Parlour PC Interface Wiring Diagram
- Left side vertical text: © ATL Agricultural Technology Limited: March 2010
- DIN Plug Connector to Out-Of-Parlour Console: Viewed from solder side
- N/C, N/C
- Meridian Bus Cable - 2m Length
- WARNING: DO NOT RUN TWISTED PAIR DATA CABLE NEXT TO MAINS CABLES OR CABLES CARRYING HIGH CURRENT AS WILL CAUSE INTERFERENCE AND SYSTEM WILL NOT FUNCTION CORRECTLY.
- Terminal labels: NC, White, Red, 2 x Black, NC, NC
- Bottom terminal labels: Black (B), Red, Black (A), White
- Meridian Bus Cable - 2m Length
- Female 9 Pin 'D' Connector to PC: Viewed from solder side. Pins 4 and 6 linked. Pins 7 and 8 linked
- 1

PC INTERFACE: 4

Out-OF-Parlour PC Interface Wiring Diagram

DIN Plug Connector to Out-Of-Parlour Console: Viewed from solder side

N/C   N/C

Meridian Bus Cable - 2m Length

WARNING: *DO NOT RUN TWISTED PAIR DATA CABLE NEXT TO MAINS CABLES OR CABLES CARRYING HIGH CURRENT AS WILL CAUSE INTERFERENCE AND SYSTEM WILL NOT FUNCTION CORRECTLY.*

NC   White   Red   2 x Black   NC   NC

Black (B)   Red   Black (A)   White

Meridian Bus Cable - 2m Length

Female 9 Pin 'D' Connector to PC: Viewed from solder side
Pins 4 and 6 linked
Pins 7 and 8 linked

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