



## LonWorks®

Serial Interface Cards

### LonWorks® Serial Card

With millions of devices installed all over the world, the LonWorks® system, developed by Echelon®, is one of the dominant solutions in the market of automation and control in industry, offices, homes and transport. The Airedale AireTronix controllers, using special serial card, can be integrated into LonWorks® networks. The FTT10 standards are supported by the LonWorks® serial card. The type of LonWorks® serial card available to the LonWorks® network side is:

- > FTT-10A 78 kbs (TP/FT-10)

The FTT-10A type serial cards use an Echelon® transceiver, which is approved to be used on the TP/FT-10 channel. This channel is characterised by the following main features:

- > Up to 64 nodes on a single network segment
- > The nodes are connected with free topology wiring, thus accommodating star, bus, loop, and any combinations of these topologies
- > Data rate 78.125 kbs
- > Maximum distance for free topology connection is 500m between nodes, or 2700m between nodes with bus connection and double line ending

Each LonWorks® card is capable of transmitting its neuron ID for identification.



### Programming cards

All cards come configured for a particular unit by Airedale Controls. Cards can be configured with default network parameters or settings specified by a customer. Alternatively an engineer site visit can be arranged to set up the device and make sure that everything works to the highest standards.



### Configuration

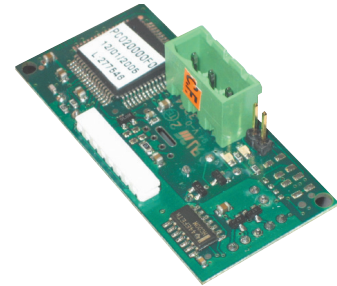
LONset® software can be used to configure or change settings of the LonWorks® card. LONset® software is available upon request.

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## Example of typical information supplied to the BMS with LonWorks® interface card

Type	Index	NV-Name	NV-Type	Direction	Description
Analogue	1	nvoRet_Hum	81	Out	Return Humidity
Analogue	12	nvoRet_Temp_SP	105	Out	Temperature Set Point (Read)
Analogue	12	nviRet_Temp_SP	105	In	Temperature Set Point (Write)
Integer	1	nvoUnit_Status	95	Out	Unit Status Indicator
Digital	18	nvoHT1_OP_On	95	Out	Stage 1 Heating On/Off
Digital	21	nvoFan_On	95	Out	Main Fan On/Off
Digital	34	nvoAir_Flow_AL	95	Out	Air Flow Alarm
Digital	114	nviBMS_ON_OFF	95	In	Unit On/Off via BMS digital 1/0 (write)
Digital	114	nvoBMS_ON_OFF	95	Out	Unit On/Off via BMS digital 1/0 (read)



### LonWorks Serial interface card

Part No. 6272553

## Airedale Controls - additional services

- > Software program design that will manage everything in the air conditioning system, fine-tuning it for energy efficiency
- > Remote Monitoring Centre – a remote monitoring service for customers with critical sites
- > After-sales
- > Live demonstration and training centre

Contact Airedale Controls on +44 (0)113 239 1000 or [controls@airedale.com](mailto:controls@airedale.com)



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Airedale reserve the right to change technical details at their discretion and without notice. For further information contact Airedale. ENG-CONTROLS-LonWorks-03/10

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