

<b>JTL FIRMWARE VARIATIONS</b>		<b>UACT</b>
<b>VERSION</b>	<b>DESCRIPTION</b>	<b>DATE</b>
v0.00.0	Original issue.	July 2011
v0.00.1	Distribution panels reduced to maximum of 7. Electrical circuits increased to maximum of 31.	Dec 2011
v0.00.2	Open & short circuit sensor fault information add. Processor TRAP fault operation changed intermediate and low temperatures added. Items 133-135 no longer dependent on network initiated defrost. Supports new energy efficient internal power supply. Password of the day operation modified for daylight saving use.	July 2012
v0.00.3	ADC readings added items 561-568 Open and short circuit sensor fault indication added on items 428 & 429 Password of the day uses daylight time. Minor adjustment to graph interpolation routine. Network plant fault function enhanced to operate with real time defrost strategy. Defrost timer initialisation amended for shut down and fans only operation. Sensor order corrected from v0.00.2 Item 90 alarm alignment corrected from v0.00.2	Aug 2012
v0.00.4	Temperature conversion table error corrected for Mk2 assemblies.	Aug 2012
v0.00.5	Disable temperature warning multicast added. Parameter updated only set when there is a definite change of data. Comms protocol level raised to 5 standard log data items 930 to 946 added. Pic identification no added Global plant data broadcast added Zone number broadcast added Flag bit display graphic type added. Display back light control added. Defrost time data suppressed on MU and communications when the data is invalid.	Oct 2014
v0.00.6	Defrost time data suppressed on MU and communications when data is invalid. Time shutdown facility added using items 238 & 239. Start address for PROM check sum redefined. End address for PROM checksum corrected. Phoenix emulation added. Signed binary word data type with application subroutine call added. Latest polling time uses this new data type. Special cases added for initial power up (1 <sup>st</sup> minute) in both Phoenix and non Phoenix modes. Call to write to NVRAM added on default write of unit nos and factory settings. Unsafe data timer initial value extended to 120 sec. Temperature difference items such as superheat, deadband, etc display on MU in Fahrenheit corrected. Start of time year 2012.	July 2015
v0.00.7	Control strategy enhanced to use the coldroom sensor when the air on sensor is deselected or faulty.	Apr 2016