

JTL FIRMWARE VARIATIONS		LCCU
VERSION	DESCRIPTION	DATE
v0.00.0	Original Issue	Feb 2002
v0.00.1	Service datalogging corrected.	Apr 2002
v0.00.2	PROM options for Mk1 & Mk2 pcbs. Jnet communications switched to 600/4800 baud for legacy support. Temperature sensor readings added to items 421 - 425. Transmit control line correctly initialised on power up on Mk2 pcbs. Factory test comms wake up added.	Apr 2002
v0.00.3	Air off alarm cancelled when no air off sensors selected. Defrost recovery period now lasts for full allowed duration, but when temperature is low enough (as before) dEFr is suppressed on display. Site number recorded. Circuit 0 not allowed on electric defrost data. Unit number range changed to 0.1 to 899.8 Time delay added on detection of defrost scheduler fault before action to override is taken. Network comms initialised to prevent transmit enable on for 10 seconds after power up on Mark 2 boards. Item 412 added to show current defrost strategy in operation. Items 411 & 413 repeat items 107 & 144 for convenience. Jnet communications level upgraded to 2. Changes to factory settings invokes read of factory data by network controller. Jnet awake enhanced. JTL site number broadcast. Hardware tests fully controllable by network communications. Network initiated real time defrost allowed. Inadvertently not allowed on previous version. Item 214 (414) enhanced to add gas & off cycle defrosts. Coordinated defrost strategy added. Sub type number changed. Broadcasting allowed when MU plugged in.	Mar 2004
v0.00.4	Input 2 selection function added on item 138. Input 2 status moved from item 71 to 139. Defrost recovery operation changes introduced in v0.00.3 corrected. Invert plant alarm operation (item 66) corrected.	Nov 2004
v0.00.5	Coldroom temperature alarm strategy changed to work on air off and pipe sensors as necessary when sensor faulty. Alarm strategy now follows control strategy. Coldroom temperature now displayed on item 20 separately from air on temperature on item 21.	Apr 2005
v0.00.6	Start of time now 1 st Jan 2004. Defrost co-ordination present timer operation corrected. Exclude from optimisation error corrected. Absolute humidity broadcast data added on item 246. Time since start of last defrost added. Forced defrost requirement now handled as standard defrost requirement. Theoretical potential lockup prevented when network defrost command occurs during defrost recovery. Deadband control added on item 140. Choice of control on air off temperature added item 275. No cooling mode added. Supports broadcast and multicast timer options. Alarm reLay added on relay 5. Real time defrost choice added for electric and off cycle defrosts on each defrost time.	Oct 2010