EUROTHERM CONTROLS

PC3000 FUNCTION BLOCK REFERENCE

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RELEASE HISTORY

Function Blocks

This is a revision history since Version 2.09.

Version 2.27.

Note: This was initially released as 2.26. Any versions of 2.26 in the field should be replaced with 2.27 as 2.26 contained an EPROM error. Only the EPROM has to be changed; the FB Library and applications can be used as they are.

The major change with this release was the introduction of "generic communications" where communication function blocks assigned to the ICM were executed on the ICM. The consequence is that from this version the ICM firmware version must match the LCM firmware version. Generic communications introduced BLOCK reads of J-Bus slave parameters.

The JBus Master, Siemens, Toshiba and the Statistical Blocks were included in the standard release rather than only on special order.

New Function Blocks.

CLASS

Type

COMMS

JBus_M

Siemens_M_S

Toshiba_M

INPUTS

XFast_An_I

XI_Fast_An_I

OUTPUTS

Fast_An_Out

REMOTE

Rmt_<data_type>_8

Rmt_<data_type>_64

SLAVE

Slv_<data_type>_64

RECIPE

RecipeMan

StageMan

Bool_16x128 (also Real and Dint)

String_1x128

ALARMS

Cur_Alms

History

Sensor

Sensor_16

Detector

STATISTICAL

SPC

Histogram

SPC_Event

Statistics

Version 3.00

This revision introduced many new function blocks.

Used with the PS Version 3.04 and above, a context sensitive help was introduced defining the function of each pin of most of the function blocks.

The Comms and System classes were reversed in the listing (unintentionally). This changes some of the default addresses.

Extra pins were added to Task to indicate cpu utilisation.

Format characters were added to slave parameters. This ultimately caused significant problems using the default addresses with Wizcon. This problem has been resolved in version 3.1.

An 8 segment programmer was introduced together with a Filesystem which uses spare RAM to save recipes.

A new version of this EPROM was produced, dated 31 March 1995, which overcomes the failure to warm start when an application contains more than 80 JBus slave addresses.

New Function Blocks

CLASS

Type

COMMS

Euro_Panel2

FILESYSTEM **NEW CLASS**

FS_Format

FSFileHndl

FSFreeSpace
FSAccess
FSDirectory
INPUTS
XFast_An_I *REMOVED*
XI_Fast_An_I *REMOVED*
OUTPUTS
Fast_An_Out *REMOVED*
CONDITION **NEW CLASS**
Scale
MaxMinAverg
SwtchOver
Process_Dly
Hyst<type> <Real, Dint and Time>
Toler_<type> <Real, Dint and Time>
RelHumidity
Rate_Limit (moved from OTHERS)
Freq_Cnt
AstableCyTm
AstableOnOf
Toggle
Totaliser
CustomLin
Random
PID
PIDHeatCool (PID_Auto with common pins only)
PROGRAMMER **NEW CLASS**
Ramp_Target
Ramp_Rate (moved from OTHERS)
Prog8Rate
Prog8Time
SELECT
Set_<type> <Real, Dint and Time>
Regist_<type> <Real, Dint and Time>

STATISTICAL		
	Statistics	
REMOTEINSTR	**NEW CLASS**	
	GenRmtInst	(Use only for < 3 instruments)
	GenRmtDrive	
	RmtDrive584	
	RmtDrive590	
	RmtTU1400	
BITMANIPUL	**NEWCLASS**	
	BooToDint	
	DintToBool	

Version 3.10

This version corrects some of the problems encountered in Version 3.00. The EI Bisync slave format character now works correctly.

A new remote instrument block was introduced and the old one removed. This new block prevents overload of the Master driver.

The Europanel function block was removed as this product is no longer available.

This function Block Library is available on the LCM-PLUS but it is a different EPROM!

New Function Blocks

CLASS		
	Type	
COMMS		
	Euro_Panel	*REMOVED*
	AllenB_M	
REMOTEINSTR		
	RmtControlr	
	GenRmtInst	*REMOVED*