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 Document Title : OQAR & PQAR Run Control
 Equipment Affected : OQAR & PQAR
 Part Numbers : D52000 (all models)
 Classification : Information

Introduction

The Optical Quick Access Recorder (OQAR) and PC Card Quick Access Recorder (PQAR) include a feature to enable and disable the recording of data by the application of an external (to the OQAR/PQAR) discrete input line – RUN CONTROL (pin E1 on D52000-6XXXX and pin 51 on D52000-4XXXX).

By default the RUN CONTROL function in the D52000-6XXXX OQAR/PQAR is disabled by the default setting of the 05 SYS_CFG|RUNC_ENA = DISABLED, and by default the RUN CONTROL function in the D52000-4XXXX OQAR/PQAR is enabled by the default setting of the 05 SYS_CFG|RUNC_ENA = ENABLED.

By default to be compliant with ARINC 591 the RUN CONTROL function active state is 'grounded to run', however this may be changed to 'open to run' if so desired by the 05 SYS_CFG|RUNC_AST configuration variable.

RUN CONTROL CMM Definition.

The OQAR and PQAR CMMs define the RUN CONTROL function as follows:

Function:	Discrete input from host or aircraft system to enable/disable recording of data.	
Characteristics:	2-state grounded or open	
	Configurable interpretation as follows:	
	1	grounded to run (ARINC 591 compliant)
	2	open to run
	3	disabled (always run)
Electrical:	grounded	= < 1k to ground
	open	+ > 50k to ground

Configuration Variables.

SYS_CFG Menu in CMM 31-34-00 Table 9 (OQAR D52000-6XXXX) and 31-34-24 Table 8 (PQAR D52000-6XXXX) define the RUN CONTROL configuration variables as follows:

MNEMONIC	NAME	DESCRIPTION	RANGE	FACTORY SETTING	ICF
RUNC_ENA	Run Control Enable	Enables data recording from the Run Control discrete input	ENABLED DISABLED	DISABLED	Y
RUNC_AST	Run Control Active State	Sets the Run Control discrete input active state (ie. State to indicate RUN)	OPEN CLOSE	CLOSE	Y

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Table 8 (page 20) SYS_CFG Menu CMM 31-34-01 (OQAR D52000-4XXXX) and 31-34-25 (PQAR D52000-4XXXX) define the RUN CONTROL configuration variables as follows:

MNEMONIC	NAME	DESCRIPTION	RANGE	FACTORY SETTING	ICF
RUNC_ENA	Run Control Enable	Enables data recording from the Run Control discrete input	ENABLED DISABLED	ENABLED	Y
RUNC_AST	Run Control Active State	Sets the Run Control discrete input active state (ie. State to indicate RUN)	OPEN CLOSE	CLOSE	Y

- NOTES.
1. MR000001 is the default configuration for the D52000-6XXXX OQAR/PQAR.
 2. MR000004 is the default configuration for the D52000-4XXXX OQAR/PQAR.

Default Configurations MR000001 & MR000004.

These configurations contain the factory default settings – restored in the OQAR/PQAR when the operator selects the 09 RE_BOOT|RE_INIT menu option. Therefore if the customer uploads a different configuration into the OQAR/PQAR or changes any configuration variable from the front panel ICD, then the factory default settings can be restored by selecting 09 RE_BOOT|RE_INIT menu option or by uploading the appropriate OQAR/PQAR model type default configuration file listed in the notes above.

Additional References.

These additional documents are also available in Adobe Acrobat PDF file format:

- PS1245 - Restoring the OQAR/PQAR Default Configuration.
- PS1270 - OQAR/PQAR RUN Control Setting.
- PS1284 - OQAR/PQAR Access Code.

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