

Controlair, LLC 8 Columbia Dr Amherst NH 03031 United States



Member of the FM Global Group

Certificate of Compliance to IEC 61508

FM Approvals Certifies herewith that the

Type 6500/6600 Volume Booster (Safety Manual 441-622-149)

Complies with the relevant requirements of standards listed below:

Standards	Description	Compliance
IEC 61508-1: 2010	Functional Safety of Electrical/Electronic/Programmable	Part 1
	Electronic Safety-Related Systems - General Requirements	
IEC 61508-2: 2010	Functional Safety of Electrical/Electronic/Programmable	Part 2
	Electronic Safety-Related Systems	

And therefore

IS DECLARED "FIT FOR USE" IN A SIL 3, 2, OR 1 Low Demand SAFETY APPLICATION

Models	Туре	SIL	HFT	SFF	PFD	λsd	λѕυ	λ_{DD}	λου
Type 6500/6600	Type A Pneumatic	3, 2, 1	0	93.5%	1.54X10 ⁻⁵	3.46X10 ⁻⁸	4.35X10 ⁻⁹	1.15X10 ⁻⁸	3.49X10 ⁻⁹
	Component								

Note: PFD Average calculation is based on a proof test interval of 1-year, a Hardware Fault Tolerance (HFT) of 0, a Mean Time of Repair (MTR) of 8 hours, and Mean Time To Restoration (MTTR) of 8-Hours.

Specific Condition of Use:

- 1) The analysis shows the design of the Type 6500/6600 Volume Booster can meet the hardware requirements of IEC61508 SIL 3 depending on the complete final element design.
- 2) 1001 Low Demand Configuration.

This certificate is subject to conditions of use presented in FM Approval Report Project ID 3055291 dated 16th December 2015.

Manager - Electrical Systems

FM Approvals One Technology Way, Norwood MA, 02062 USA 24 June 2024

Date