



SIEMENS Cerberus™

Cerberus PRO – C-NET devices Planning Tool

Answers for infrastructure and cities.

www.siemens.com/cerberus

.sı9wers.

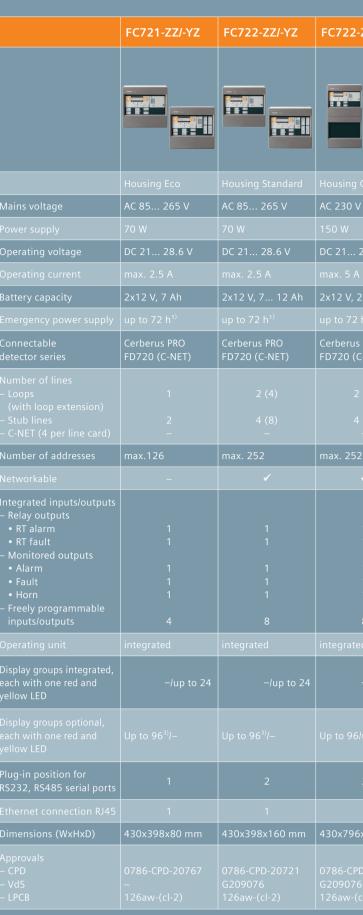
well they manage these challenges. Siemens has the growing. For our customers, success is defined by how of users. Also, our need for safety and security is constantly In addition, we need to increase comfort for the well-being has top priority – and not only where energy is concerned. warming and resource shortages. Maximum efficiency infrastructure." in new ways: demographic change, urbanization, global energy-efficient, safe and secure buildings and Our world is undergoing changes that force us to think Answers for infrastructure and cities.

"We are the trusted technology partner for

The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

Tel +41 41 724 24 24 Switzerland 6uZ 10Eð Gubelstrasse 22 International Headquarters Building Technologies Division Infrastructure & Cities Sector Siemens Switzerland Ltd

Panel overview



¹⁾ with additional housing and power supply
²⁾ with additional input/output cards FCI2008-A1
³⁾ with extra housing

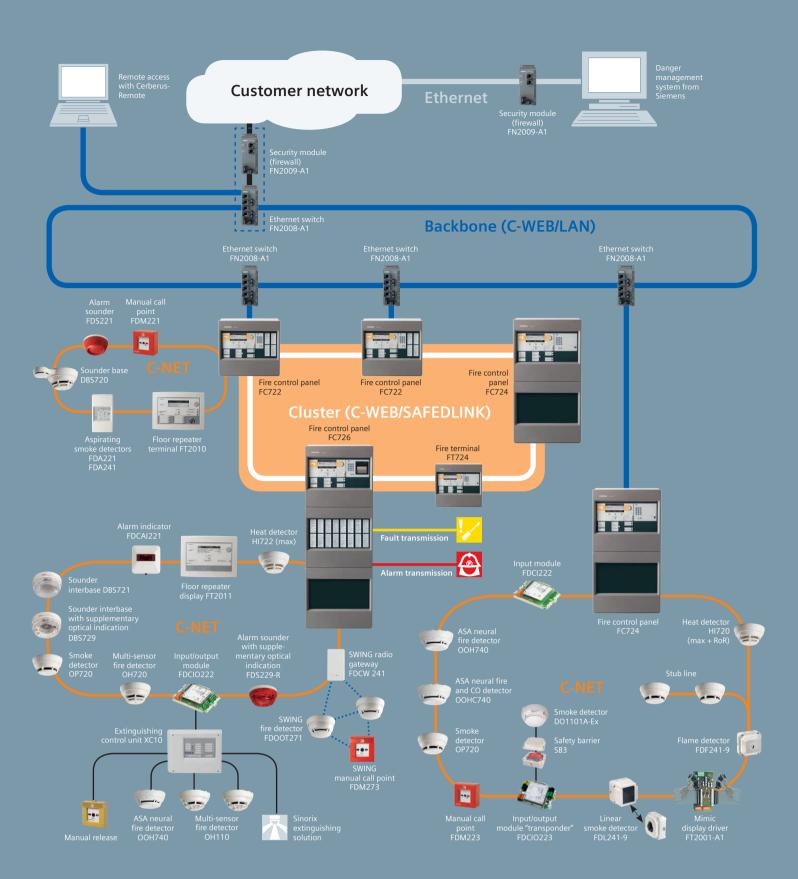
Robust or sensitive? The solution often lies somewhere in between.



2-ZA/-ZE	FC724-ZA/-ZE	FC726-ZA	FT724-ZZ		
g Comfort	Housing Comfort	Housing Comfort			
V	AC 230 V	AC 230 V	-		
	150 W	150 W	option PSU 70 W		
. 28.4 V	DC 21 28.4 V	DC 21 28.4 V	DC 21 28.4 V		
	max. 5 A	max. 5 A	125 mA		
, 26 Ah	2x12 V, 26 Ah	2x12 V, 45 Ah	option 2x12 V, 7 Ah		
2 h	up to 72 h	up to 72 h	up to 72 h		
us PRO (C-NET)	Cerberus PRO FD720 (C-NET)	Cerberus PRO FD720 (C-NET)			
			-		
52	max. 504	max. 1,512	-		
			✓		
	12	12 (72) ²⁾			
ted	integrated	integrated	integrated		
-/up to 48	-/up to 48	-	-		
	Up to 96/up to 96	Up to 96			
2	2	2	2		
1	1	1	1		
96x160 mm	430x796x160 mm	430x796x260 mm	430x398x80 mm		
PD-20721 76 -(cl-2)		0786-CPD-20983 G210084 126aw-(cl-2)			

Cerberus PRO – enjoy protecting

Powerful control panels, clever fire detectors and smart peripheral devices. This is what our comprehensive Cerberus™ PRO family offers. The brief overview below demonstrates the most important system components.



sion (PS5)	Suppression CO (PS12)	High Compensation (PS7)	Robust (PS2)	Balanced (PS4)	Balanced CO (PS10)	Fast Response (PS6)	High Sensitive Fast (PS9)
P\$5	PS12 PS12	PS7 - Popust	PS2 - Post	PS4	PS10	PS6	Robust
n area conments subject to heavy decep- ena. Application examples include tens or manufacturing areas with elated deceptive aerosols. n t behavior, therefore very suitable ns with deceptive phenomena such as cigarette smoke or exhaust gases. time, the detector reacts with the er set quickly and reliably in case of e to the dynamic influencing of the	Application area Difficult environments subject to heavy deceptive phenomena. Application examples include manu- facturing areas with operational-related aerosols. Additional separate CO toxic gas detection and environmental monitoring. Highly robust behavior, therefore very suitable for applications with deceptive phenomena such as steam, cigarette smoke, etc. At the same time, the detector reacts with the ASA parameter set quickly and reliably in case of a real fire due to the dynamic influencing of the parameters. Sensitiv- ity is also influenced by the CO concentration. Separate CO alarming and control for the detec- tion of unhealthy or dangerous carbon monoxide buildup. Separate signaling of environmental thermal thresholds.	Application area Applications with deposits resulting from excessive dust or dirt over a long-time period. Here, optical detectors usually reach their limit quickly, resulting in a reduced operational lifetime. Description This parameter set is identical to the Robust setting except that the drift compensation is extended. This parameter set is therefore especially suited for rooms in which a lot of dust and other deposits can be expected to build up over a period of time. The detector maintains the set detector sensitivity and resistance to deceptive phenomena. The detec- tor reacts quickly and reliably in case of a real fire.	<text><text><section-header></section-header></text></text>	Application area Standard applications. Rooms with moderate decep- tive phenomena. Description For use in normal environments. This parameter set has a balanced response characteristic; sensitive in case of a fire but still tolerant of transient deceptive phenomena. Due to its distinct dynamic, the detector reacts quickly to open fires as well as smoldering fires. This ASA parameter set reacts robustly to de- ceptive phenomena such as cigarette smoke or small amounts of steam. Additional information This parameter set is often used when the system is set in unmanned mode (e.g. at night).	Application area Rooms where an increased CO concentration in the event of a fire is possible. Moderate deceptive phenomena. Description Using the three criteria: smoke, heat and CO the device is more sensitive to fires creating CO than the parameter set 'Balanced (PS4)' without the CO signal. The device is robust with deceptive phenomena such as cigarette smoke or a small amount of steam. This parameter also offers early alarming in the event of fires generating a large amount of CO, e.g. mattress fires.	Application area Rooms in which sensitive and quick detection is essential such as rooms with high ceilings, ware- houses with flammable material (increased risk of fire) and application areas where the detectors trigger an extinguishing system. Description This parameter set reacts in a fast and highly sensitive manner. It is thus especially suited for rooms without deceptive phenomena, where the priority is on detecting fires as early as possible. Expert advice The high thermal influence from open fires trans- ports the dark smoke particles that are typical for this kind of fire quickly to the ceiling. Due to the backward scattering and the "Fast Response" set- ting, the detector is highly sensitive. This makes the detector a perfect replacement in situations where ionization detectors would normally have been considered optimal.	Application area Rooms in which an especially high sensitivity to smoldering and open fires is required. Examples include museums with high ceilings, clean prod- uction halls or applications where adequate life protection can only be ensured by the fastest possible detection. Due to special thermal algo- rithms, usage at low temperatures is also possible. Description This parameter set allows for the fastest possible detection for both open and smoldering fires. It is therefore intended for use in clean environments with no deceptive phenomena.
vith the norm EN 54-5, EN 54-7	Complies with the norm EN 54-5, EN 54-7	Complies with the norm EN 54-5, EN 54-7	Complies with the norm EN 54-5, EN 54-7	Complies with the norm EN 54-5, EN 54-7	Complies with the norm EN 54-5, EN 54-7	Complies with the norm EN 54-5, EN 54-7	Complies with the norm EN 54-5, EN 54-7
n examples nens, production areas with elated deceptive phenomena	Application examples Production areas with operational-related deceptive phenomena	Application examples Paper mills, carpenters workshops, textile production, recycling plants	Application examples Event locations, conference rooms, smoking rooms, gastronomy, industry, production, underground garages	Application examples Offices, open-plan offices, hallways, hotel rooms, out of hours use in harsh environment areas	Application examples Same as for 'Balanced (PS4)', but with higher robustness against deceptive phenomena	Application examples High-ceilinged rooms, storage rooms/warehouses with flammable material, IT rooms and control of extinguishing systems	Application examples Hospital rooms, museums, operating rooms, cold storage, high-ceilinged rooms, when highly sensitive detection is of great importance

Alarm sounder tones

No.	Tonality	Frequency pattern Sweep from – to	Pulse pattern	Adjustable FDS221 and FDS229 sound intensity level (typ. values in [dBA/1m]*)		Norm	
				at 12 V	at 32 V		
	Continuous	970 Hz		98 88 81	101 92 82		
2	Intermittent	950 Hz		96 87 79	100 91 81	"alert" BS 5839 Part 1 1988	
3	Sweep-down	1200 Hz – 500 Hz		96 87 79	100 91 80	DIN-Tone DIN33404 Part 3	
4	Slow-whoop Sweep-up, linear	500 Hz – 1200 Hz	3.5 s	97 88 81	101 92 82	NEN2575 (Netherlands)	
5	Pulse tone	500 Hz	0.15 s	94 85 75	97 88 75	Swedish Standard SS 03 17 11, No. 1 "Imminent Danger"	
6	Intermittent	500 Hz	0.15 s	93 84 75	96 87 75	Swedish Standard SS 03 17 11, No. 6 "Local Warning"	
7	Continuous	500 Hz		94 85 76	97 88 76	Swedish Standard SS 03 17 11, No. 4 "All clear"	
8	Alternating	560 Hz 440 Hz		94 85 75	98 89 76	"French fire sound" NF S 32-001-1975	
9	Intermittent	420 Hz	0.65 0.65 s	94 85 76	98 89 77	Australia "Alert" AS 2220 -1978	
10	Slow-whoop Sweep-up, linear	500 Hz – 1200 Hz	3.75s	96 89 81	100 93 82	Australia "Action" AS 2220 -1978	
11			0.5 s 0.5 s 0.5 s 1.5 s			ISO 8201 US Temporal Tone LF	

Specifications are subject to change without notic

Cerberus PRO Planning Tool **C-NET devices**

