

## FC1008, FC1012

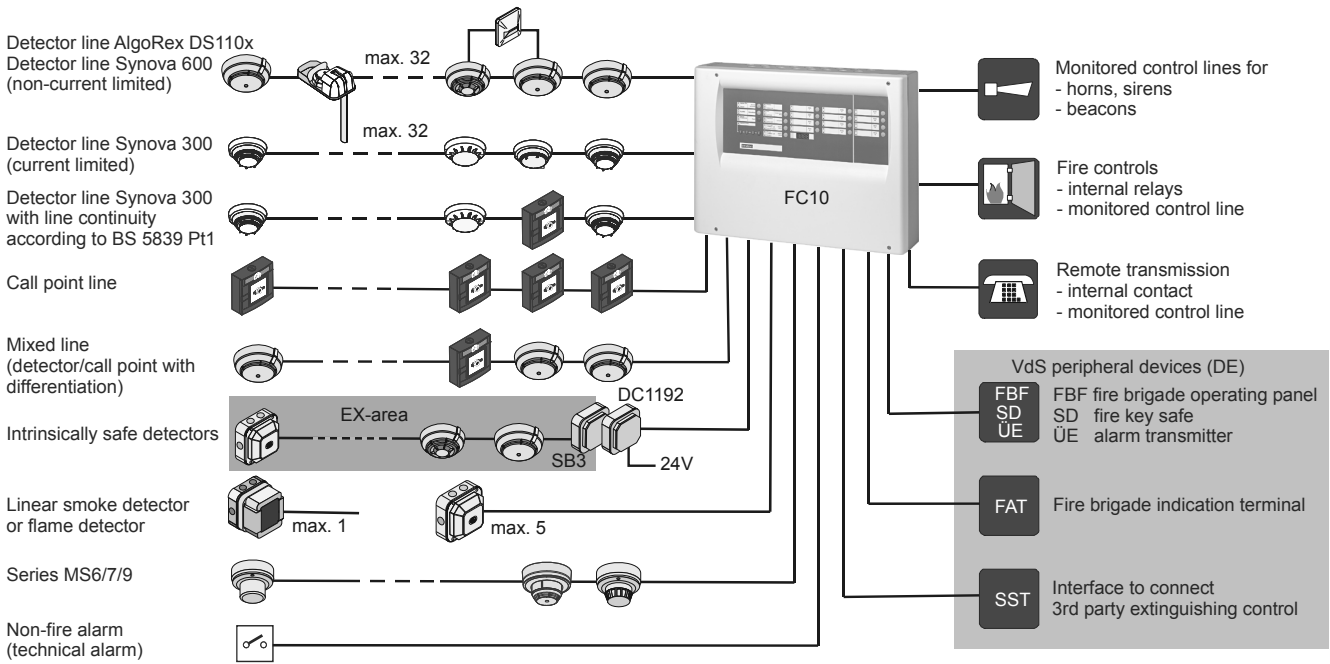
### Control units



Conventional

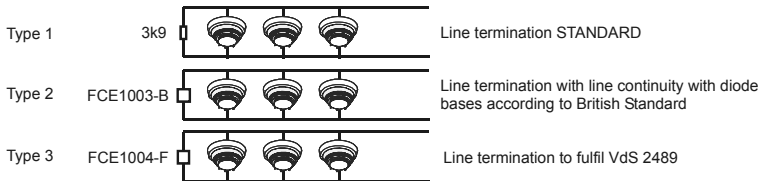
- 8 or 12 zones (FD1008-D with 7 zones)
- Compatible with all conventional Siemens detector series
- 2 selectable detector line standards for a wide range of detector compatibility
- 2 or 6 monitored control lines for sirens, strobe lights etc.
- Programmable alarm organization for manned/unmanned operation
- Alarm verification
- Cross-zoning
- Suitable to collect non-fire related events with non-latching zone option
- Alarm counter
- 320 event memory with stamped date and time
- Display of alarm delay countdown
- Simple user controls with isolate/test button per zone
- Key code user access with optional key-switch alternative
- Easy on-site configuration
- Polling facility for service information
- Integral capacity for emergency power of up to 72 h
- Battery 17 Ah (2 x 12 V)

## System overview



### EOL

Detector line termination with three different types, depending on type of control unit.



## Various types with different features

Types	Zones	Control lines	Power supply	Battery size	7-segment display	VdS peripheral devices	EOL
<b>FC1008-A/-H</b>	8	2 (+4)	2.5 A	17 Ah	(x)	-	Type 1
<b>FC1008-B</b>	8	2 (+4)	2.5 A	17 Ah	(x)	-	Type 2
<b>FC1008-C</b>	8	2 (+4)	2.5 A	17 Ah	(x)	-	Type 1
<b>FC1008-D</b>	7	2 (+4)	2.5 A	17 Ah *	(x)	-	Type 1
<b>FC1008-E</b>	8	2 + 4 (EVAC)	2.5 A	17 Ah	x	-	Type 1
<b>FC1008-F</b>	8	2	2.5 A	17 Ah	x	x	Type 3
<b>FC1012-A</b>	12	2 (+4)	2.5 A	17 Ah	(x)	-	Type 1
<b>FC1012-B</b>	12	2 (+4)	2.5 A	17 Ah	(x)	-	Type 2
<b>FC1012-C</b>	12	2 (+4)	2.5 A	17 Ah	(x)	-	Type 1
<b>FC1012-F</b>	12	2	2.5 A	17 Ah	x	x	Type 3

\* if remote transmission card is used, only 7.2 Ah possible

(x) = optional

### Legend

Zones	Number of detector lines (zones) for current limited or non-current limited detectors (selectable per line)
Control lines	Number of monitored control lines providing max. 500mA in state <i>alarm</i> , figure in brackets stands for optional number (FCA1003), state active programmable (steady/pulsating)
Power supply	Max. available current on 24 V-side
Battery size	Max. battery capacity (2 x 12 V) that fits into the cabinet, left figure stands for 30 h of emergency power operation (* = for 12 h)

7-segment display	indication module for alarm counter, alarm delay count-down, clock, event memory, etc. factory-mounted or available as add-on (FCA1002)
VdS peripheral devices	facility to connect the VdS peripheral devices (FSB, FAT, SD, UE, SST)
EOL	type of <i>end-of-line</i> units as shipped with the control unit (detail see above)

## System overview (continued)

The FC1008/12-xx is a compact 8 or 12 zone control unit. The control unit has been designed to be very simple to use while offering exceptional flexibility via a comprehensive feature list.

### Detection

- Each line programmable for *current limited* or *non current limited* operation
- Detectors and call points on same line with functional differentiation (where allowed)
- Intrinsically safe detectors via line coupler DC1192 and safety barrier SB3
- Each line programmable for *non-latch* function and/or technical alarms

### Inputs / Outputs

- Dry contacts for general alarm and fault
- 2 or 6 monitored control lines 24 V/500 mA for horns, external remote transm., etc.
- 1 to 6 fire control relays, rated 10 A/250 V
- Driver output per detector line
- 6 common driver control outputs
- 6 control inputs (1 programmable)

### PMI

- Individual indicator labeling with inscription stripe sets in various languages
- Numeric display for alarm counter, clock, alarm delay count down, event memory
- Individual isolate/test buttons for clear and easy user operation

### Commissioning

- Basic functions that can be adapted on-site if required without laptop
- Simple “out of the box” start up with preset default values
- Service function to poll date and time of last *test alarm* or last *configuration change*

Types	Additional line card BS	Door contact	RT Isolation card	Fire control relays	Key switch	Special functions
<b>FC1008-A</b>	-	-	(x)	(6)	(x)	(standard function according to EN 54)
<b>FC1008-B</b>	x	-	(x)	(6)	(x)	according to British Standard
<b>FC1008-C</b>	-	-	(x)	(6)	x	with Nordic fire key switch (Nordic countries)
<b>FC1008-D</b>	-	-	(x)	(6)	x	PMI with fire brigade terminal (Swiss standard)
<b>FC1008-E</b>	-	-	(x)	(6)	(x)	with special EVAC control unit (Dutch standard)
<b>FC1008-F</b>	-	x	-	(6)	(x)	with interface for VdS peripherals (German standard)
<b>FC1012-A</b>	-	-	(x)	(6)	(x)	(standard function according to EN 54)
<b>FC1012-B</b>	x	-	(x)	(6)	(x)	according to British Standard
<b>FC1012-C</b>	-	-	(x)	(6)	x	with Nordic fire key switch (Nordic countries)
<b>FC1012-F</b>	-	x	-	(6)	(x)	with interface for VdS peripherals (German standard)

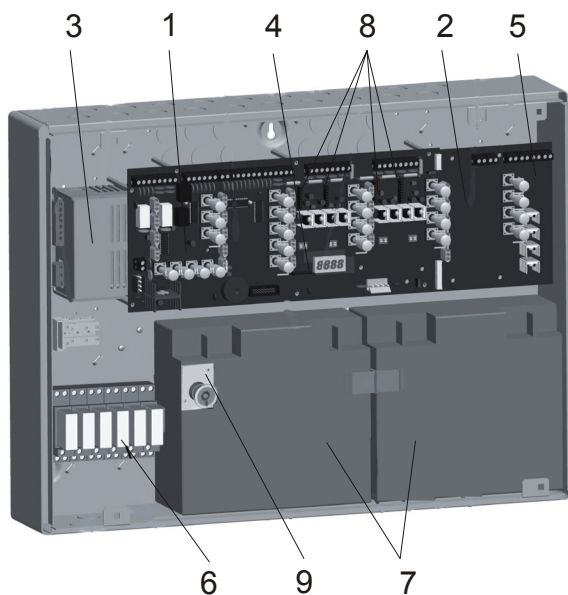
(x) = optional

### Legend

Additional line card BS	To provide line continuity with diode bases according to British Standard	Fire control relays	Max. number of optional relay units (Z3B171) that can be mounted inside the cabinet
Door contact	Built in door contact to disable remote transmission Alarm if cover is removed	Key switch	Optional key switch (FCA1007) to provide operating access instead of access code
RT isolation card	Optional add-on card (FCA1005-D) to isolate the remote transmission hardware-wise		

## Configuration of the control units

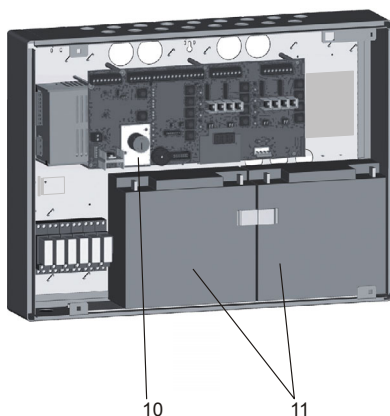
### FC1008/12-A, FC1008/12-B, FC1008-C



#### Basic components

- 1 Main board
- 2 Line extension card, with FC1012-x
- 3 Power supply (70 W)
- 4 Display module (optional)
- 5 Control module (optional)
- 6 Fire control relays (optional)
- 7 Battery 17 Ah (2 x 12 V)
- 8 Add-on card for line continuity British Standard (BS), only FC1008/12-B
- 9 Key switch Nordic, only FC1008/12-C

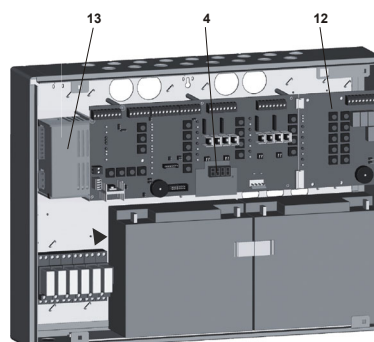
### FC1008-D



#### Additional

- 10 Key switch type KABA on main board
- 11 Battery 7.2 Ah

### FC1008-E



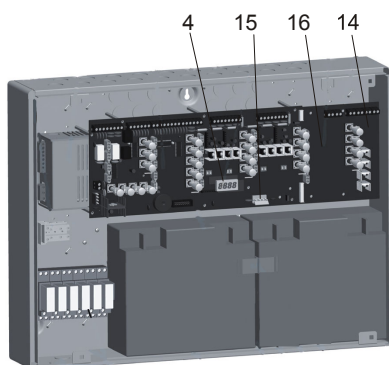
#### Additional

- 12 EVAC control card
- 13 Power supply (70 W)

#### Factory equipped

- 4 Display module

### FC1008/12-F



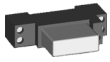
#### Additional

- 14 VdS card
- 15 RS 232 adapter card (optional for FAT)
- 16 SST interface card or line extension card with SST (optional)

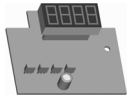
#### Factory equipped

- 4 Display module

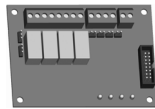
## Accessories to FC1008/12 (options)



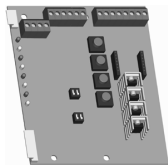
**Relay module Z3B171**  
1 changeover contact 250 VAC/10 A for the connection of fire control installations such as fire doors.  
Accessory for all control unit types.



**Display unit FCA1002**  
To provide alarm counter, clock, 320 event memory, delay countdown.  
– Factory equipped with: FC1008-E, FC1008-F, FC1012-F  
– Optional with: FC1008-A/-B/-C/-D, FC1012-A/-B-C  
Quiescent current:  
– mains operation 33.5 mA  
– battery operation 7.5 mA

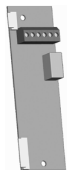


**Control card FCA1003**  
To provide 4 additional monitored control lines rated 24 V/500 mA.  
Not possible with: FC1008-F, FC1012-F  
Quiescent current: 84 mA



For VdS only

**Line extension card FCA1004-F**  
Combined with interface SST (VdS). Provides 4 additional detection lines and connecting facility for external extinguishing control.  
Accessory for FC1012-F only  
Quiescent current: 42.5 mA



For VdS only

**Interface card SST (VdS) FCA1000-FF**  
To provide connecting facility to external extinguishing control.  
Accessory for FC1008-F only.  
Quiescent current: 2.5 mA



For BS 5839 Pt1 only

**Add-on line card FCA1007-B BS**  
To provide line continuity with diode bases according to British Standard BS5839 Pt1. One unit per 2 lines.  
Accessory for FC1024-A if used with FC1008/12-B

Quiescent current: 0 mA  
**RT-isolation card FCA1005-D**  
To provide hardware disconnecting facility for the remote transmission channels.

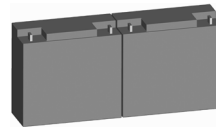


For VdS only

**RS232 adapter FCA1006-F**  
to provide connecting facility to FAT (VdS).  
Accessory for FC1008-F, FC1012-F  
Quiescent current: 47 mA including FAT



**Key switch FCA1007**  
To provide operating access via key switch instead of password.  
Accessory for all control unit types.  
Not possible with  
FC1008/12-C, FC1008-D

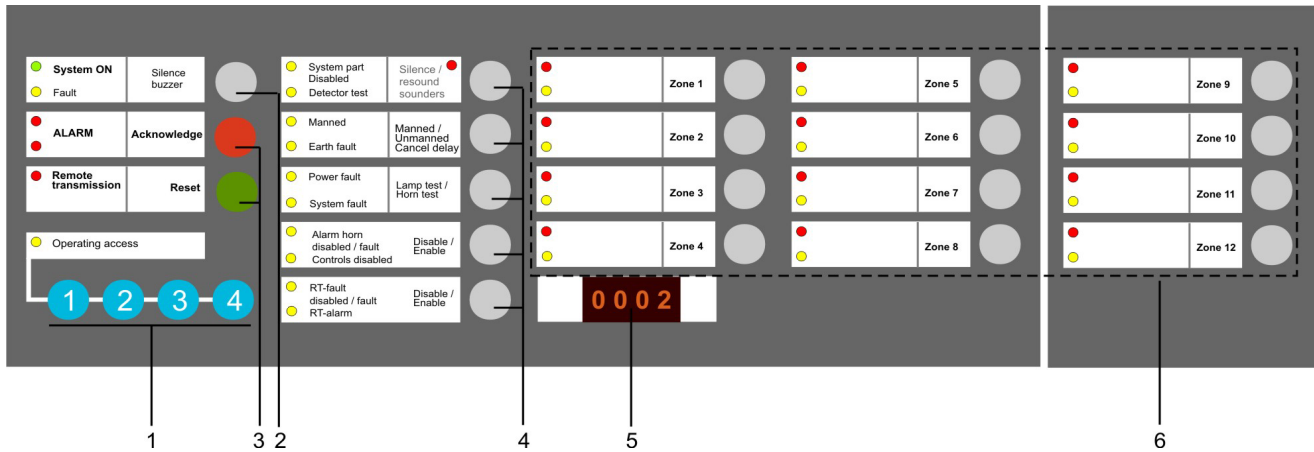


**Battery FA2005-A1**  
Capacity according to required emergency supply bridging time.

FA2005-A1: 17 Ah

## Operating panels

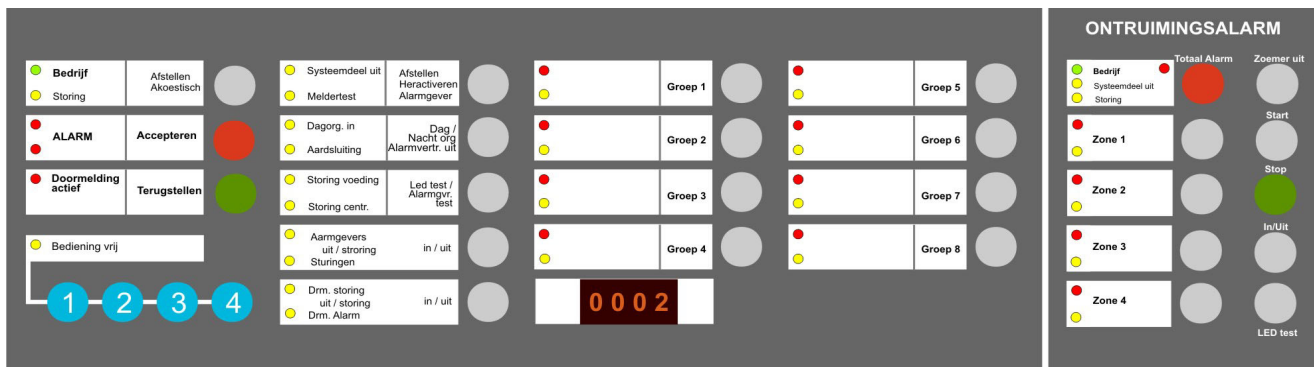
FC1008/12-A /-B/ -C (Standard/Great Britain/Nordic countries), 8 or 12 zones, with optional 7-segment display



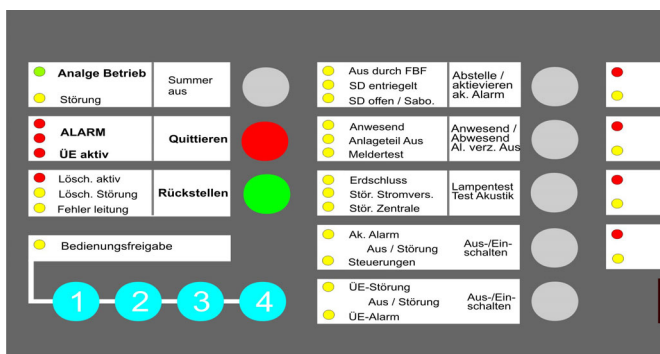
### Legend

- 1 Access code entry – Separate user and engineer code access.
- 2 Silence buzzer
- 3 Acknowledge, Reset
- 4 Silence, Enable alarm sounders, Manual switching, Manned/Unmanned, alarm delay cancel, lamp / sounder test, sounder / control disable and disable remote transmission.
- 5 Optional display providing - Clock / counter – Provides current time, time of switching to un-manned, alarm counter, event memory and remaining alarm delay time.
- 6 Individual zone test / isolate controls.

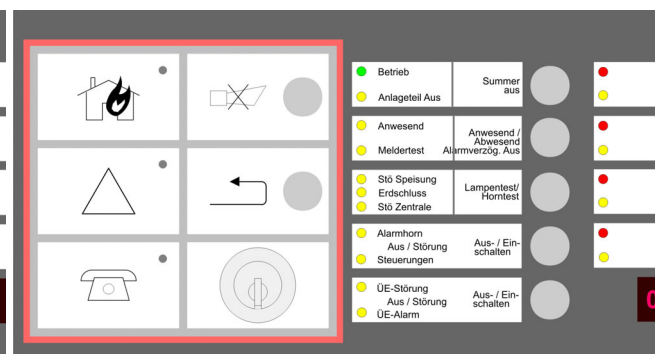
FC1008-E (Netherlands), 8 zones, with 7-segment display and special evacuation module




FC1008/12-F (Germany), 8 or 12 zones, with 7-segment display and additional indicators



FC1008-D (Switzerland), 7 zones, with fire brigade control (FBA)



## Technical data

 Siemens Schweiz AG, CH-6301 Zug Date: see manufacturing date on the product 0786-CPD-XXXXX EN54-2, EN54-4 Fire Control Unit, Safety in case of fire FC1008, FC1012 Technical data see Doc. A6V10265083	Mains supply voltage	AC 115/230 V, +10 %/-15 %, 50/60 Hz
	Power consumption	
	– FC1008/12-A/-B/-C/-D/-F – FC1008-E	25 ... 45 VA / optional 20 ... 110 VA 20 ... 110 VA
Quiescent current		
– FC1008-A/-B/-C/-D – FC1008-E – FC1008-F – FC1012-A/-B/-C – FC1012-F	125 mA 170 mA 180 mA 155 mA 220 mA	
Emergency power operating		... 12 h / ... 30 h / ... 72 h
Outputs		
– Dry contact Alarm – Dry contact Fault – Fire control relays (optional, 1...6) – Monitored control lines (2 or 6) – Driver outputs (14 or 18)	30 V/1 A, NO/NC 30 V/1 A, NO/NC 250 V/10 A, NO/NC 24 V/500 mA 24 V/40 mA	
Control inputs (6)		Positive potential via dry contact
Interfaces		VdS peripherals (only FC1008/12-F)
Operating temperature		0 ...+50 °C
Storage temperature		-20 ...+60 °C
Humidity (no condensation permitted)		
at T = 25 ±3 °C		≥95 % rel.
at T = 40 ±2 °C		93 % rel.
Cabinet		
– Dimension (W x H x D) – Color metal chassis – Color cover FC10xx-A/-B/-C/-D/-E/-F	506 x 378 x 125 mm grey, ~RAL 9006 white, ~RAL 9003	
Protection category (IEC 60529)		IP40
Standards		EN 54-2, EN 54-4
Approvals VdS		request

## Reference documents

Doc. No. A6V10277145_--	FC10 2/4 zone	Data sheet
Doc. No. A6V10265083_--	FC1008/12-A/-B/-C	Technical manual
Doc. No. A6V10265083_CH	FC1008/12-D	Technical manual
Doc. No. A6V10265083_NL	FC1008-E	Technical manual
Doc. No. A6V10265083_DE	FC1008/12-F	Technical manual
Doc. No. 007995_--	FC10	Operating manual

## Details for ordering

	Type	Part no	Designation	Weight
Control units	FC1008-A	S54380-C4-A1	Control unit conventional 8 zone	8.200 kg
	FC1008-B	S54380-C4-A10	Control unit conventional 8 zone GB	8.100 kg
	FC1008-C	S54380-C4-A20	Control unit conventional 8 zone Nordic	8.300 kg
	FC1008-D	S54380-C4-A30	Control unit conventional 7 zone CH	8.300 kg
	FC1008-E	S54380-C4-A40	Control unit conventional 8 zone NL	7.600 kg
	FC1008-F	S54380-C4-A50	Control unit conventional 8 zone DE	8.300 kg
	FC1012-A	S54380-C5-A1	Control unit conventional 12 zone	8.350 kg
	FC1012-B	S54380-C5-A10	Control unit conventional 12 zone GB	8.250 kg
	FC1012-C	S54380-C5-A20	Control unit conventional 12 zone Nordic	8.450 kg
	FC1012-F	S54380-C5-A30	Control unit conventional 12 zone DE	8.500 kg
Accessories	FCA1002	A6E60500021	Display unit	0.090 kg
	FCA1003	S54380-C6-A1	Control card	0.137 kg
	FCA1004-F	A6E60500023	Line extension card SST	0.257 kg
	FCA1000-FF	A6E60500055	Interface card SST	0.103 kg
	FCA1007-B	A6E60500027	Add-on line card GB	0.003 kg
	FCA1005-D	A6E60500024	RT-isolation card	0.039 kg
	FCA1006-F	A6E60500025	RS232 adapter	0.084 kg
	FCA1007	A6E60500026	Kit key switch standard	0.175 kg
	Z3B171	4843830001	Fire control relay	0.040 kg
	FCP1004-E	A6E60500054	Power supply charger unit 3.5 A	0.769 kg
FA2005-A1	A5Q00019677	Battery 12 V/17 Ah	2.481 kg	
Inscription stripes shipped with each control unit	Control unit type	Language of inscription stripes		–
	FC1008/12-A	Czech, Danish, Dutch, English, Flemish, French, German, Italian, Polish, Portuguese, Spanish, *)		–
	FC1008/12-B	English		–
	FC1008/12-C	Danish, Finnish, Norwegian, Swedish		–
	FC1008-D	French, German, Italian		–
	FC1008-E	Dutch		–
	FC1008/12-F	German		–

\*) Inscription stripes for other languages can be generated using a special Word template (available at Hotline)