SIEMENS

Cerberus™ PRO

Test units and accessories

FDUL221, DX791, RE6, REF8, REF8-S, REF8-C, RE8, RE8-S, RE8-C, RE7T, RE8ST, RE8STCO, RE8-CO, RE7T-x, RE10, FDUM29x, FDLU291, LE3, StabexHF



Test units to test detectors and detector lines for FS720 fire detection installations.

- Detector exchanger DX791 for the efficient installation and removal of Cerberus point detectors
- Line tester FDUL221 for diagnosing detector lines
- Detector tester RE6 for use with environmentally-friendly test gas REF8, REF8-S, REF8-C
- Detector tester RE7T with hot air generator, RE8ST with smoke capsule RE8-S, RE8ST-CO with smoke capsule RE8-S, capsule RE8-CO, and CO capsule
- Detector tester RE10 for undertaking a function check on linear smoke detectors
- Telescope rods FDUM291/292 for extending detector exchangers and other testers



roperties					
	 4-line dis 	splay with 20 charact	ers per line		
	 Menu-gu 	ided operation			
	 Supply v 	vith battery or via net	work adapter		
	• Possible to update the device software (firmware) via the MCL-USB adapter (radio)				
	• Possible to update the device software (innivare) via the MCL-USB adapter (radio) FDUZ227 and via a PC				
	Environmentally friendly processing				
	Reusable				
	 Electroni 	ic parts and synthetic	materials can be eas	silv separated	
nction					
	Different fun	ctions can be called	up. e.g:		
		of devices found at A			
		ors found, location of			
			d fault with indication		
	 Total res 	sistance is too high ar	nd/or charge voltage a	at the line end is too low	
	 Data trar 	nsmission fault due to	o line capacitance beir	ng too high	
	 Browsing 	a from detector to det	ector with screen disr	playing type and serial number	
		-	ce of branch for scrolli		
				•	
			ndicator of the selecte	ed detector and recognizing the cor	
		larm sounder			
		d aparation and tuna			
	 Extended 	u operation and func	ionality on PC with lin	e tester software FXS2017	
	The line	tester software FXS2	•		
		tester software FXS2	•		
	The line	tester software FXS2 1.	•	e scope of delivery of the line tester	
	The line FDUL22 FXS2017 PC Lir	tester software FXS2 1.	2017 is included in the	e scope of delivery of the line tester	
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Fig. 1: Line tester software FXS2017

FD0221

Opened "xx_small_loop_with_errors"

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Start Scan

FDS221-R/-W 4120595

42A4385

Offline

_			ID ID	FDUL221-EL	Customer Text	
MI	Topology	Туре	ID	Errors		Out A Out B Out C Out D
1 2 3	A ا ب ت ت ت ت ت	OP720 FDM221 OH720 DBS720	00126D4 45F9E89 001168A		read using FDUL221	Device ID: 4B73671 •••OOH740 Multi criteria fire detector ES: 4 SW: 66
4	1.0	OOHC740	490D001			Subtype: 0 Channel: Product channel only D-Bus Address: 1
5	.	OOH740	4B73671			Resistance: Ra: 1.80 Rb: 2.60
6	1.0	OH720	001296C			
7	۵	FDM221	45F9E73			Status
8	2.0	OH720	000C806			• 0K
9	(Th	FDCI0222	45C61B9			Device operation time is less than
10		FDS221-R/-W	45080FF			120 days
	e B	end of loop				120 0030
						Edit Customer Text:
-	rt Scan					

Fig. 2: Line tester software FXS2017

The line tester FDUL221 is a universal device for the final testing of fully installed C-NET fire detector lines if a control panel is not connected. The device is used to for error searches by the electrician, installer, or service technician.



- 1 On/Off switch
- 2 USB connection
- 3 Connection of a loop or stub line
- 4 Shielding

- 5 2x terminal strips for the detector line
- 6 Network adapter
- 7 Display
- 8 Battery compartment on the underside for 2x 9 V lithium batteries, not included in scope of delivery



Fig. 3: Scope of delivery FDUL221

Properties	
	Lightweight, robust design, made from reusable, environmentally friendly material
	• Possible to exchange the detector without a ladder or scaffolding up to a room height of 8 m with the help of the telescope rods
	• The point detector can be held in all positions. This makes it easier to work efficiently

- Compatible with
 - Telescope rods FDUM291/292
 - Previous straight connectors VR10/11/12/13
 - MP/MT handles and straight connectors

Function

Efficient installation and removal of the point detectors below.

Adapter FDUD491 is an accessory part for detector exchanger DX791, which serves to install and remove point detectors OOH740 and OOHC740.

Installation/removal with detector ex- changer DX791	Installation/removal with detector ex- changer DX791 and adapter FDUD491
OH720	OOH740
OP720	OOHC740
HI720	
HI722	



¹⁾ The suction cap is used to attach the detector dust cap to and remove it from the detector.

Detector tester RE6

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- The detector tester RE6 is used together with a test gas can REF8, REF8-S, or REF8-C. It is designed to test optical smoke detectors, ionization detectors, and CO detectors.
- The detector tester is positioned over the detector for the testing process. Brief pressure causes the test gas to flow into the measuring chamber of the detector and therefore simulate the presence of fire aerosols. After a short period of time, the detector responds and triggers the alarm.
- REF8 and REF8-S are environmentally-friendly test gases and comply with strict environmental regulations. They do, however, contain flammable substances. REF8 is used for the temperature range 0...+40 °C and REF8-S for -20...+40 °C in dry and damp conditions. REF8-S is mainly used for temperatures below 0 °C or for point detectors that only trigger the alarm when there is a high level of smoke density or after longer signal integration.
- REF8-C is used to test the CO functionality of detectors with a CO sensor. REF8-C can be used in dry and damp conditions at temperatures between -20 °C and +50 °C.

When transporting, e.g., in a car, we recommend protecting the detector tester and the test gas cans from heat.

Please observe the notices on the detector tester for operation.

Detector tester RE7T – Solo461 heat detector tester kit



The heat detector tester kit consists of

- 1x heat detector tester
- 2x rechargeable batteries
- 1x charger with 12 V connection cable
- 2x mains cables AC 110/120-220/240 V.

The heat detector tester contains a hot air generator. The heat detector tester is positioned over the detector for the function check. The hot air emitted heats the detector which triggers this alarm.

In high rooms, detectors positioned at an angle can be reached and tested using adapters and telescope rods.

The adapter RE7T-A and telescope rods FDUM291/292 must be ordered separately.

The heat detector tester must not be used in electrical switching stations or areas where there is a danger of explosion.



The test kit RE8ST consists of

- 1x Testifire 1001-101 tester
- 1x RE8-S smoke capsule
- 2x rechargeable batteries
- 1x charger with 12 V connection cable
- 2x mains cables AC 110/120-220/240 V
- 1x USB cable.

The detector tester contains a smoke capsule. The detector tester is positioned over the detector for the function check. The smoke that is emitted triggers an alarm.

In high rooms, detectors positioned at an angle can be reached and tested using adapters and telescope rods.

The adapter RE7T-A and telescope rods FDUM291/292 must be ordered separately.

The detector tester must not be used in electrical switching stations or areas where there is a danger of explosion.

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Fig. 4:

The test kit RE8STCO consists of

- 1x Testifire 2001-101 tester
- 1x RE8-S smoke capsule
- 1x RE8-CO CO capsule
- 2x rechargeable batteries
- 1x charger with 12 V connection cable
- 2x mains cables AC 110/120-220/240 V
- 1x USB cable.

The detector tester contains a smoke capsule or CO capsule. The detector tester is positioned over the detector for the function check. The smoke or gas that is emitted triggers an alarm.

In high rooms, detectors positioned at an angle can be reached and tested using adapters and telescope rods.

The adapter RE7T-A and telescope rods FDUM291/292 must be ordered separately.

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The detector tester must not be used in electrical switching stations or areas where there is a danger of explosion.

RE7T-A – Solo719 adapter for FDUM29x



Mounting adapter for the detector testers RE7T, RE8ST, and RE8STCO on the telescope rods FDUM291 and FDUM292

RE7T-B1 – Solo770 battery



Battery as spare part

RE7T-C1 (Solo727 charger)



Charger as spare part for charging the batteries RE7T-B1

RE8-S smoke capsule for RE8ST and RE8STCO



RE8-CO CO capsule for RE8STCO



Properties

- Light and robust yellow plastic pipes, non-conductive material
- Plastic sockets and friction bearings ensure that the pipes run into each other easily.
- Quick spring-type locking mechanisms allow continuous adjustment of the length.
- The pipes can be extended to their maximum length. A stop is used to prevent them from extending further.
- Existing testers can be used.
- The telescope rods cannot be extended.



WARNING

Falling objects

Danger of injury

• Always wear a hardhat when working with telescope rods.



WARNING

Approaching or touching live lines Electric shock

• Only use testers with telescope rods in volt-free areas.

Uncontrolled movements of sections of rod
Injuries to hands
Keep a tight hold of the section of rod during the insertion process.
• Starting at the bottom, insert the sections of rod one after the other, largest diameter first.
Maintain the safety distance between the sections of rod.
Use a spring-type locking mechanism to secure each section of rod.

FDUM291

- Light telescope rod for all applications in rooms up to 5.5 m high
- Flap closure for continuous adjustment of the length
- Three-part telescope with tri-oval pipes as practical grip
- Twisting the pipe in the opposite direction is not possible
- Weight: 1.2 kg without tester fitted
- Retracted length 1.6 m, extended length 4.2 m

FDUM292

- Long and robust telescope rod for all applications in rooms up to 8 m high
- Flip top closure for continuous adjustment of the length
- Sturdy four-sided telescope with round pipes
- Weight: 3.4 kg, without tester fitted
- Retracted length 2.1 m, extended length 7.3 m



- 1 Flip top closure
- 2 Flap closure



For undertaking a function check on the linear smoke detectors. The alarm test filter TF04 is inserted into the detector tester in accordance with the type of detector to be tested.

An alarm test filter is also included in the adjustment kit FDLU291.

For testing, the detector tester is held in front of the detector lens in the IR beam. The detector responds after a few seconds.

Adjustment kit FDLU291



The adjustment kit is used for commissioning the linear smoke detector FDL241-9. The lens of the linear smoke detector can be efficiently aligned to the reflector by one man.

Scope of delivery:

- Case with adjustment device •
- Alarm test filter
- Visor
- Magnet •
- Spiral cable •
- MC link cable .
- 9 V battery •
- Suspension fixture with cable grippers and chain •

13



The test lamp LE3 is used to test the function of all flame detectors over distances up to 10 m. It is housed in a transportable case together with the required accessories. In addition, the case enables the test lamp to be kept in a dust-free condition.

The quartz-halogen lamp used creates an intense ray of light. This helps to align the lamp on the detector which is to be tested. During the detector test, the ray of light is modulated. The luminous intensity can be set in accordance with the distance.

The power is supplied by a rechargeable battery. Since the color of the light depends on the charge state of the battery, it must always be charged in buffer mode. A special charger is available for this.



Test lamp Stabex HF



The test lamp Stabex HF is used to test the function of intrinsically safe flame detectors in zone 1 or 2 areas at risk of explosion.

The lamp is used directly in front of the detector for the test. The ray of light must be pulsed with the sliding switch at half-second intervals.



WARNING

Opening test lamps in areas at risk of explosion Risk of explosion

Risk of explosion

Do not open the test lamp Stabex HF in areas at risk of explosion.

Technical data	
Line tester FDUL221	
Supply voltage	Min. DC 10 V, max. DC 30 V
Battery or via network adapter	Lithium manganese dioxide battery ¹ , 2x 9 V AC 240 V / DC 24 V, 750 mA
Power consumption during measurement	Depends on the number of devices and the
Detector line voltage:	display backlight
C-NET (FS720)	DC 32 V
C-NET	DC 28 V
Max. detector key figures (MK) per line:	
MK with network adapter	Min. 550
MK with battery	Min. 150
Operating temperature	-25+40 °C
Storage temperature without battery	-30+75 °C
Storage temperature with battery	-25+60 °C
Air humidity (no condensation permitted)	≤95 % rel.
¹ ULTRALIFE U9VL or U9VL-J or EVE CR	29V/P-S
Detector exchanger DX791	
Dimensions Ø x H:	
With suction cap	82 x 175 mm
With adapter FDUD491	87 x 178 mm
Detector tester RE6	
Operating temperature:	
REF8	0+40 °C
REF8-S	-20+40 °C
REF8-C	-20+50 °C
Storage temperature	-20+40 °C
Number of detector tests, depending on detector type	Max. 400
Heat detector tester RE7T	
Operating temperature	5+45 °C
Storage temperature	-10+50 °C
Air humidity (no condensation permitted)	≤95 % rel.
Voltage	Auto: DC 12 V
	Mains: AC 110/120-220/240 V
Charging time	Approx. 1 hour per battery
Detector tester RE8ST/RE8STCO	
Operating temperature	5+45 °C
Storage temperature	-10+50 °C
Air humidity (no condensation permitted)	≤ 95 % rel.
Voltage	Auto: DC 12 V
	Mains: AC 110/120-220/240 V
Charging time	Approx. 1 hour per battery
Adjustment kit FDLU291	
Dimensions of the adjustment device	120 x 65 x 22 mm
L	

Test lamp LE3	
Power consumption	50 W
Modulation frequency	4 Hz
Max. distance for alarm activation	10 m
Measuring capacity with charged battery and max. distance Number of detectors	~ 50
Operating and storage temperature	-20+ 45 °C
Areas of use	Areas not at risk of explosion
Incandescent lamp	Halogen 12 V / 50 W
Battery	12 V / 7 Ah, lead, gas tight
Charging time	Min. 16 h
Power supply connection charger	AC 220 / 240 V, 5060 Hz
Dimensions:	
Test lamp	178 x 180 x 369 mm
Battery	153 x 103 x 67 mm
Test lamp Stabex HF	
Max. distance for alarm activation	A few cm
Operating and storage temperature	-20+40 °C
Explosion protection	II 2 G EEx ib e IIC T4
Ex approvals	PTB 98 ATEX 2062
Areas of use	Zones 1 and 2
Protection category	IP65
Incandescent lamp	Halogen 2.8 V / 0.5 A
Battery	2x alkaline batteries 1.5 V Mono cell UM-1

Disposal



The device is considered an electronic device for disposal in accordance with European Directive and may not be disposed of as domestic waste.

• Use only designated channels for disposing the devices.

• Comply with all local and currently applicable laws and regulations.

• Dispose of empty batteries at designated collection points.

	Туре	Order number	Designation	Weight
Line tester	FDUL221	A5Q00004397	Line tester with line connection kit FDUL221-A, power unit set FDUL221-B and carry case	1.567 kg
Accessories	_	A5Q00004142	Lithium manganese dioxide battery 9 V / 1.2 Ah	0.035 kg
Spare part	FDUL221-A	A5Q00008436	Line connection kit	0.088 kg
	FDUL221-B	A5Q00008437	Power unit kit	0.278 kg
	FDUL221-C	A5Q00008438	RS232 PC cable as spare part for FDUL221 with RS232 interface	0.037 kg
	FDUL221-3	S54370-S30-A1	Line tester without accessories	0.440 kg
	Туре	Order number	Designation	Weight
Detector exchanger	DX791	S54319-F6-A1	Detector exchanger	0.082 kg
Adapter	FDUD491	S54319-F18-A1	Adapter	0.034 kg
	Туре	Order number	Designation	Weight
Detector tester	RE6	BPZ:3680300001	Detector tester for smoke detectors	0.950 kg
Accessories	REF8	A5Q00011687	Test gas can	0.194 kg
	REF8-S	A5Q00011688	Test gas can	0.186 kg
	REF8-C	S54370-N2-A1	Test gas can CO	0.203 kg
	Туре	Order number	Designation	Weight
Detector tester	RE7T	S54370-S3-A1	Solo461 heat detector tester kit consisting of tester, 2 batteries, charger, cable	2.800 kg
Accessories	RE7T-A	S54370-N4-A1	Solo719 adapter for FDUM29x	0.260 kg
Spare part	RE7T-B1	S54370-N7-A1	Solo770 battery for RE7T	1.090 kg
	RE7T-C1	S54370-N8-A1	Solo727 charger for RE7T	1.210 kg
	Туре	Order number	Designation	Weight
Detector tester	RE8ST	S54370-S23-A1	Testifire 1001-101 ST test kit	3.470 kg
	RE8STCO	S54370-S24-A1	Testifire 2001-101 STCO test kit	3.750 kg
Capsule	RE8-S	S54370-N25-A1	TS3 smoke capsules, 6 items	0.079 kg
	RE8-CO	S54370-N22-A1	TS3 CO capsules, 6 items	0.077 kg
Accessories	RE7T-A	S54370-N4-A1	Solo719 adapter for FDUM29x	0.260 kg
Spare part	RE7T-B1	S54370-N7-A1	Solo770 battery for RE7T ¹⁾	1.090 kg
	RE7T-C1	S54370-N8-A1	Solo727 charger for RE7T ¹⁾	1.210 kg

¹ Compatible with RE8ST and RE8STCO

	Туре	Order number	Designation	Weight
Telescope rod	FDUM291	A5Q00004996	Telescope rod – three-part telescope with tri-oval pipes, 1.6 m / 4.2 m	1.960 kg
Spare part	-	A5Q00009787	Lever with screw and nut, flip top closure	0.023 kg
	-	A5Q00009786	Adapter with lever, screw, and nut incl. mounting and sleeve bolt	0.088 kg
	_	A5Q00009788	Small flap with screw and nut, flap closure	0.015 kg
	_	A5Q00009789	Large flap with screw and nut, flap closure	0.016 kg

	Туре	Order number	Designation	Weight
Telescope rod	FDUM292	A5Q00004997	Telescope rod – four-part telescope with round pipes, 2.1 m / 7.3 m	4.480 kg
Spare part	-	A5Q00009787	Lever with screw and nut, flip top closure	0.023 kg
	-	A5Q00009786	Adapter with lever, screw, and nut incl. mounting and sleeve bolt	0.088 kg
	Туре	Order number	Designation	Weight
Detector tester	RE10	BPZ:3685190001	Detector tester for linear smoke detectors	0.345 kg
Alarm test filter for RE10	TF04	BPZ:4931090001	Alarm test filter, absorption 77 %	0.005 kg
	Туре	Order number	Designation	Weight
Adjustment kit	FDLU291	A5Q00004905	Adjustment kit for linear smoke detector incl. case	0.840 kg
	Туре	Order number	Designation	Weight
Test lamp	LE3	BPZ:3669510001	Test lamp for flame detector incl. case and charger, without battery	5.260 kg
Accessories	FA2003-A1	A5Q00019353	Battery 12 V / 7 Ah / VdS	2.293 kg
Spare part		BPZ:3679630001	Halogen lamp 12 V / 50 W	0.395 kg
	Туре	Order number	Designation	Weight
Test lamp	Stabex HF	BPZ:4620910001	Test lamp for areas at risk of explosion	0.175 kg

Applicable documents

Document ID	Name	
A6V10229261	List of compatibility (for 'Cerberus™ PRO' product line)	
A6V10201731	Installation Detector exchanger DX791, adapter for detector exchanger FDUD491	
A6V10254740	Operating instructions Solo461 heat detector tester kit RE7T	
A6V10387053	Installation RE8ST Testifire 1001-101 ST test kit, RE8STCO Testifire 2001-101 STCO test kit	
A6V10260320	Operation RE7T-C Solo726 charger for RE7T-B	
A6V11432110	Operation RE7T-C1 Solo727 charger for RE7T-B1 Solo770	
008250	Technical Manual Line tester FDUL221	
A6V10395483	Line tester – operating instructions for electricians	
007016	Technical manual Linear smoke detector FDL241-9	
000257	Operating instructions Test lamp LE3	
Safety data sheets		
A5Q00011687D	Safety data sheet REF8	
A5Q00011688D	Safety data sheet REF8-S	
A5Q00035329C	Safety data sheet REF8-C	

MCL-USB adapter (radio) FDUZ227, see data sheet A6V10355605.

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