

# FOR THE ENTIRE LIFE CYCLE OF YOUR FIRE DETECTION SYSTEMS



## ONE SOFTWARE FOR ALL TASKS

tools 8000 is the complete software tool for your fire detection systems. It accompanies you during every phase of your system's life cycle, from start-up and programming to fault diagnosis and regular service.



#### Start-up

tools 8000 automatically determines all the installed components and simplifies operation. **More on page 4** 



#### Programming

tools 8000 will support you with setting up a new system and also assist with subsequent system maintenance and expansion. **More on page 5** 

Wy Panel Network	Panel Configuration Deter Device Age and Health: Most Recent Assessment: 08.09.20	ector zones	5	Control zones	Activations		Switch	Functions	Sectors Conditions	Event Menory
Please Control - Panel Please Control -	Device Ag			13	0 Not Analyzed 0 Good 1 Approaching Max 0 Exceeded Option	]			Device Health	163 Not Analyzed 48 Good 0 Approaching Lini 0 Bad
> - FlexES Control - Panel	Service Indication for Analogue detector	e.								Quantit
	Loopt' SA Serial Number Type	Zo/C	Det SW	ProdDate	Operating Hours	PAL	AL F	Param.No.	Sensor Hint for automatic detectors	
	121 23 107104212473 0	8/2	6.10	28.07.2012	12524	20	22			
	121 24 039100359732 0	8/3	6.10	23.06.2015	1202	8	9	-		
	121 25 107100882038 O	8/4	6.10	27.03.2012	15629	15	18			
	121 26 107104201330 O	8/5	6.10	27,07,2012	12522	8	9			
	121 27 130110075105 Fried	5/10	6.9	17.11.2010	20721	- 1	14			
	121 20 136110030999 THE	5/17	6.10	27.02.2012	12752		1	-		
	121 30 134127603100 OT	10/1	6.3	08 12 2005	18039	6	2			
	121 31 107104212145 O	8/6	6.10	28.07.2012	8292	6	13			
	121 32 136110906366 T Reed	5/18	6.10	17.07.2012	12346	2	1			
	121 33 163045283446 027/Se	9/9	7.4	97.05 2008	41830	2	1			
	121 34 136110910639 T Fixed	5/19	6.10	27.07.2012	12348	3	2			
	121 35 136110910714 T Fixed	5/20	6.10	27.07.2012	12354	2	1			
1	121 36 163045282890 O2T/So	9/10	7.4	07.05.2038	42401	2	1			
1	121 37 136110911230 T Fored	5/21	6.10	27.07.2012	12356	0	1			
	121 39 155043340011 0/5-	9/6	7.4	7.05.2007	41823	0	0			
	121 40 136110604521 T Fixed	5/22	63 3	9.05.2010	41687	4	3			
	121 41 163049470378 02T/So	9/11	7.4 0	2.08.2012	11482	0	0			
	121 42 136110656957 T Fixed	5/23	6.3 1	7.11.2010	189402	0	7			
	(					-1	-			
	Read Out									
									Export to	Print Help

**Device Age and Health Dashboard** 



#### **Ring bus diagnosis**

With tools 8000 you can check system components for functionality and faults. **More on page 6** 



#### **Service & Maintenance**

From recording measured values to creating a system status report, the software will assist you with all service tasks. **More on page 6** 

## IDEAL FOR START-UP AND PROGRAMMING

In recent years, technologies for fire protection have become increasingly complex. tools 8000 provides an easy to understand overview of the entire system.

#### Checking an existing installation

When installed on a generic PC or laptop, the software first reads all the installed devices on the loop. Every device will be displayed, either as a graphic or topological view or table format including all available data. You can quickly confirm everything is according to plan.

#### Measuring signal strength for wireless components

Find the optimum installation location for your wireless devices – quickly and securely. The integrated signal strength measurement functionality on tools 8000 shows you how strong the signal of each wireless device is at the installation location in dB, using traffic light colors as a guide. This helps you to easily determine the perfect position.

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Control - Panel	Image: Second and the provide second and the provid

Visualization during start-up



Display of signal strength at the installation site

#### Programming and configuration

Thanks to tool 8000's intuitive user interface you can configure device-related requirements using the menu. When the configuration has been installed, you can check it at any time using tools 8000 and, if required, restore a previous configuration.

#### Transparency and structure

Whether it is the allocation of detectors to groups, the creation of additional device-related text or the formation of areas: tools 8000 will help you to manage your system from the very start. At the end of the start-up process, you will also create a start-up protocol with it.

#### Parameter configuration and control

With tools 8000, it is just as easy to configure eventrelated controls as well as time delays or the individual allocation of alarm signals. You can even configure parameters for fire alarms with the same tool.



A tool for all generations: tools 8000 is compatible with all fire alarm control panels, from 800X to FlexES Control. Now you only need one tool to manage all the systems in your maintenance inventory.

## FOR FAULT DIAGNOSIS AND MAINTENANCE

When considering the lifetime cost of a system, nearly 50% of the costs are for maintenance. The diverse functions of tools 8000 are also designed to assist you during service and maintenance.

rvice Indica	tion							
Information	Sensor value							
Descriptio	n							
Type: 02T			Serial Number: Isolator:	: 147100279704 : available : not available		(C)		A
			Software Version:	6.0			Det	ector
Identificat	ion							
Short Ac	ddress:3		Name / Label:					
Operating	Data							
Date of	Production:	1.10.2004	Pre-alarm Counter:	7	Service	0	40	80 100
Hours of	of Operation:	39254	Alarm Counter:	4	Note:			9
					Loop device o.k.			
Paramete	er Setting							
Paramet	er No.:	3						
Paramet	er Name:	Garagenmelder						
						-	_	
						Close		Help

#### **Diagnosis and test function**

If there is a fault, such as a cable interruption or short circuit, then tools 8000 will quickly find the origin of the fault. Moreover, the test function will simplify fault diagnosis for control outputs on transponders.



form Mea	surements				>
nformation	Sensor value	Graphics (standardized)	Graphics (at	osolute)	
Forward S	Scatter		Back	wards Scatter	
18	Bith value: 26	- 25		Birth value: 37	
			47		48
Heat Sen	100F		Tota		
1	Birth value: 34 uiescent value:	: 24		Total value	
	1		25	Alarm threshold Pre-Alarm threshold	

#### **Environmental measurements**

tools 8000 enables you to measure environmental values and to display them dynamically as a graphic. This allows you to determine false alarm parameters, which will impair the functionality of your detector.

#### Measuring the degree of contamination

Contamination of a detector's sensing chamber increases continuously with time. Condensation, dirt and aerosoles change the measuring accuracy and are compensated by the measuring value compensation. tools 8000 reads out the values and displays these as a graphic.



Start-up and service via fire alarm control panel



Start-up and service on the ring bus

### Connection via USB or fieldbus interface to fire alarm control panel or ring circuit

With tools 8000, you can connect your laptop directly to the fire alarm control panel via USB. That way you can connect to all the loops and devices connected to the fire alarm control panel.

Alternatively, you can also connect tools 8000 directly via USB and a fieldbus interface to the loop. This can be helpful, for example, in identifying loop installation faults before fire alarm control panel has been installed.

In both cases, the loaded data can be administered offline and the programming of the fire detection control panel can be continued. When the configuration has been created, the data are programmed into the control panel without the need to re-learn the loop.

## FAST OVERVIEW OF THE LIFE CYCLE

With the device age and health dashboard, it's easy to keep an overview of those devices which are coming to the end of their service life – a particularly valuable function for long-term customer care.



The measuring data is also available offline, if you are no longer connected to the system.





#### Fast display of device age

You will find the device age in the newest version of tools 8000 under "detector service". At a glance, it shows you how many detectors are getting close to the maximum operation duration or have already exceeded the maximum detector age.

ew	Project Settings	Diagno	stics Communic	cation	
Perfe	orm Measurements				
	Cat file some for d	aba aba a		abach	
	Set file name for o	etector	neasurement at	start	
Loop	Service				
De	vice Age				
E	xceeded:	8	Years		
4	noroaching Max :	6	Vears		
	pproducing Prover		icu s		
Re	adout Operating D	ata			
E	All Bus Devices				
1	Include Wireless D	etector			

#### With a simple, clearly-arranged display, tools 8000 shows

A quick overview of the degree of contamination

you how many detectors have contaminated sensing chambers and, where applicable, need to be replaced.

### Can be configured according to specific country regulations

In many countries, the replacement of smoke detectors is strictly regulated and e.g. in Germany, stipulated after a maximum of 8 years. For detectors without contamination-dependent measurement value tracking, the time period is only 5 years. These values are preset, but can be easily adjusted.

## COMPELLING REPORTS FOR YOUR CUSTOMERS

According to DIN 14675 and VDE 0833 requirements, you can create various reports on your maintenance activities. Comprehensive print and export functions are available for this, so no customer query is left unanswered.



### Overview for planning and budgeting

In comprehensive systems, you can plan the replacement works for the coming years based on the reports. This is also important for your customers, enabling them to effectively budget for this work in the long term.



My Pan Mainten	el Network hance report - Exch	ange required	
Excl	hange req	uired	
от	Allocation: Reason:	Serial No.: 134127603100 10/1; <i>no Label Text</i> The Detector is older than 8 years.	Data as on 08.09.2017
O2T/S	o Allocation: Reason:	Serial No.: 163045283446 9/9; no Label Text The Detector is older than 8 years.	Data as on 08.09.2017
O2T/S	o Allocation: Reason:	Serial No.: 163045282890 9/10: <i>no Label Text</i> The Detector is older than 8 years.	Data as on 08.09.2017
O2T/F	Sp Allocation: Reason:	Serial No.: 163167445647 9/6; <i>no Label Text</i> The Detector is older than 8 years.	Data as on 08.09.2017
O/So	Allocation: Reason:	Serial No.: 155043340931 9/1; no Label Text The Detector is older than 8 years.	Data as on 08.09.2017
O2T/F	Sp Allocation: Reason:	Serial No.: 163167449096 9/7; no Label Text The Detector is older than 8 years.	Data as on 08.09.2017
O2T/S	o Allocation: Reason:	Serial No.: 163045283224 9/13; <i>no Label Text</i> The Detector is older than 8 years.	Data as on 08.09.2017
O/So	Allocation: Reason:	Serial No.: 155043341068 9/2; no Label Text The Detector is older than 8 years.	Data as on 08.09.2017
O/So	Allocation: Reason:	Serial No.: 155043342843 9/3; <i>no Label Text</i> The Detector is older than 8 years.	Data as on 08.09.2017
O2T/S	60	Serial No.: 163045273317	Data as on 08.09.2017

#### Report on detectors which need replacing

The software summarizes which detectors need to be replaced immediately to ensure proper operation of the system. This includes the information regarding the position and model of each detector.

This makes your maintenance more efficient, because you can order the exact detector which needs to be replaced.

My Pa Mainte	nel Network mance report - Ap	proaching maximum age	
Арр	oroaching	maximum age	
02T/	FSp Allocation: Reason:	Serial No.: 163167292876 9/8; <i>no Label Text</i> The Detector reaches the maximum age on 24.03.2018.	Data as on 08.09.2017
T Fix	ed Allocation: Reason:	Serial No.: 136110604521 5/22; <i>no Label Text</i> The Detector reaches the maximum age on 29.06.2018.	Data as on 08.09.2017
T Ro	R Allocation: Reason:	Serial No.: 038100053343 7/25; <i>no Label Text</i> The Detector reaches the maximum age on 05.11.2018.	Data as on 08.09.2017
02T	Allocation: Reason:	Serial No.: 147129737001 9/5; <i>no Label Text</i> The Detector reaches the maximum age on 15.11.2018.	Data as on 08.09.2017
0	Allocation: Reason:	Serial No.: 139156460168 8/10; <i>no Label Text</i> The Detector reaches the maximum age on 16.11.2018.	Data as on 08.09.2017
T Fix	ed Allocation: Reason:	Serial No.: 136110656759 5/1; <i>no Label Text</i> The Detector reaches the maximum age on 17.11.2018.	Data as on 08.09.2017
T Fix	ed Allocation: Reason:	Serial No.: 136110656636 5/3; <i>no Label Text</i> The Detector reaches the maximum age on 17.11.2018.	Data as on 08.09.2017
T Fix	ed Allocation: Reason:	Serial No.: 136110656599 5/6; <i>no Label Text</i> The Detector reaches the maximum age on 17.11.2018.	Data as on 08.09.2017

#### Report on remaining service life

Detectors approaching the end of their life cycle are listed in a separate report. You can view the remaining service life, the respective model description and location.

This information means you can plan upcoming service work and replacement cycles more accurately.



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