

X-dock Software History



SW Version	Bugfixes	Features
01.01.01 Release 01.02.2013	Start of history	Start of history
01.01.02 Release 01.02.2013	Pac 7000 support with FW 4.0 (older firmware locked)	
01.02.05 Release 04.03.2013	Improvements of communication during alarm testing of Pac instruments (some tests have taken a while even if they were already successful)	
	Assigned to 'record in certificate will be filled	
	Improvements of error messages	
		Support of Pac 3500/5500 (FW >=4.0) Support of X-am 2500 (FW >=6.4) Support of MSD (mass storage device) functionality via Mini-USB.
01.02.10 Release 05.04.2013	Fix of "station not online/found and no test data is transferred"	
	Fail of vibration alarm test will not lock the device. The test is passed. Fail will only be noted.	
01.02.23 Release 11.07.2013	Fix of logged alarms during bump test for Pac instruments	
	Fix for crashes during calibration with stations using more than 6 X-am modules	
	Clock synchronization fix (time zone)	
	"200 device fix": system not crashing anymore if more than 200 instruments are registered and device screen is opened	
	User ID in instrument will not lead to crash if special characters are used	
		Support of X-am 125 devices with firmware 6.6 Support of new X-am error codes

		New time zones added
01.02.27 Release 27.08.2013	XDM will detect more than 10 X-docks...	
01.03.40 Release 19.12.2013		New test mode: Scheduler-Mode. Periodic testing at specific date and time Introduction of *.xup update mechanism (one file / improved usability / general improvement of update process) New function: Support of sensor vitality indication (serial number of sensor must be set during sensor exchange) New function: Fill level monitoring. Draeger gas cylinders can be monitored to generate pre-warnings if the cylinder gets empty. New function: Creation of data base dump. Dump can be imported into global data base via XDM. "Mobile Synchronization". Local data base should be deleted afterwards (DB clean). Optimization of purging and flushing to reduce test time and gas consumption. New setting: External gas hoses >2m. Support of new XDM function: Deactivate instrument if set in XDM. Support of customized logos set via XDM in station PDF certificates. Documentation of user logged in during test (certificate) New test mode: Log-In-Mode. Tests can only be started if any user is logged in. Support of level 2-5. Level 2-4 for testing only and 5 for configuration and testing. Creating of level 2-5 at station now possible. Differences between 2-4 only on XDM side. New setting: Log-out after test. Option only available for Log-In-Mode Maintenance message after year (reminder) Acknowledge blocking alarm automatically (CAT-EX 125 PR) Support of CO for cross sensitivity calibration also for Pac 7000 OV / OV-A instruments (new setting) Change of documentation for visual inspection to ease test operation Documentation of station used for testing

		Additional languages available (Swedish, Danish, Romanian, Czech, Hungarian, Italian, Finnish, Norwegian)
		Automatic repair will calibrate instruments with overdue interval also if only a warning is set and not an error
		Documentation of response time test results for each sensor
		New test signalization: Yellow. Indicates that test is completed and device ready to use but not all test steps have been done, e.g. because X-dock was configured to skip sensor for which no corresponding gas was found.
		Offer possibility to calibrate X-dock station display. To operate: Keep button pressed during start-up.
		Extended response time test: Sensor which can't be tested to t90 will be tested to corresponding t50 or t20 values.
		New setting: Quick test limitation can be deactivated. This allows use of gases "outside" the recommended area. Use on own risk.
		Support of new X-am 2500/5x00 instrument firmware 6.8: Full support of CAT-EX cross calibration (corresponding to existing 5600 solution).
	Quick test method for tests with surrogate gas corrected and changed (switch to test gas setting and test against 1/3 of test gas concentration; validation if test gas concentration is acceptable for use)	
	Pentane and Propane test gas boundaries for X-am 2000 improved	
	Bug fix: Cat-Ex tests can be started although prior N2 gassing created oxygen shortage	
	Increases purging time between mix gas SPAN calibration and oxygen quick test	
	Correction of O2 test method <u>after calibration</u> : Instead of testing against A1, testing against default A1 (usually 19Vol% for oxygen).	
	Correction of minor bugs and extension of gas cylinder list	
01.03.45 Release - - - - -	Correction of CH4 test threshold on quick test mode (A1)	

21.02.2014	Removement of BAT[V] option: In the station certificate the battery voltage will always be saved now. As this is not a full battery test, this option was removed to prevent mis-interpretation	
	Bumptest after calibration of O2 sensor will now test on default A1 (usually 19Vol%) instead of A1 configured (planned for 01.03.40 but had some issues)	
	Correction of alarm threshold for Pac instruments during horn testing to fully support Pac instruments with IP68. (old version could result in false negative testing)	
01.03.45 Release 10.04.2014	Threshold correction for horn test on all devices	
01.03.60 Release 09.10.2014	Verification if software version 6.9 is used if cross sensitivity test shall be done with X-am 125 family	
	Bug fix: Data logger handling of Pac devices	
	Bug fix: Improvement for vibration alarm tests	
		Access level can now be defined for each favorite
		Charging can be set to start immediately if devices is switched off (general option)
01.05.00 Release 24.04.2015		Vibration alarm test can be turned off (while LED and horn are still tested)
		User with level 4 get access to update menu in X-dock
		New comprehensive feature "Template Configuration"
		Zero-Calibration replaces Zero-Check
		Automatic switch over to new gas cylinder if one cylinder is empty and sending a message via XDM
		Span calibration of O2 will be done while zeroing other sensors with fresh air
		Support of further printe types (PCL and HP-Office-Jet Family)
		Report extension: Next cal date and cal interval
		New languages: Chinese, Japanese, Turkish, Slovenian, Slovakian, Bulgarian, Greek, Croatian
		Automatic log out for all test modes
		New test results: Aborted, skipped, ...
		Log-In Mode removed (replaced by level management)
	Vitality works with serial numbers including "H"	

	Quicktest handling for cross calibration corrected for X-am 2500	
	Fix for scheduler not starting	
	Prevent leading zeros during IP configuration	
	Prevent downgrades	
	Show hint if tests get slow because of local data base performance	
	Improvement of updates procedure	
	Correction of texts	
	Fix for crashes during rapid openening/closing of lid	
	FW 6.3 and 6.4 not supported anymore for X-am 5x00/2500	
	Error for low oxygen introduced	
	Fix/improvement for response tests	
	Fix for DL download X-am	
	ECC handling improved	
	Vitality results displayed only during gas tests	
	Improvement of updates procedure	
01.07.00 Release 14.09.2015	Fix of discharging of instruments while they are turned off / and while they are on trickle charging	
	Green is green. Tests can only be started if existing device errors can be fixed by the test.	
	Improvement of reliability / several minor issues fixed	
		Support of newer batches of Pac OV sensors
		Reduction of time used to generate PDFs on X-dock
		Lot-number can be set for fresh air if pressure-inlet is used
		Instead of "100Vol%" fresh air will show 20,9Vol% for O2 or 0ppm/0Vol% for other gases zeroing

01.07.61 Release 01.06.2016		New part numbers supported (Pac and X-am instruments for NAFTA) 8326370 Pac 3500 H2S 8326371 Pac 3500 O2 8326372 Pac 5500 H2S 8326373 Pac 5500 O2 8326380 Pac 7000 CO 8326381 Pac 7000 H2S 8326382 Pac 7000 NH3 8326383 Pac 7000 OV 8326384 Pac 7000 HCN 8326385 Pac 7000 PH3 8326386 Pac 7000 CO2 8326387 Pac 7000 SO2 8326388 Pac 7000 Cl2 4542121 X-am 5600 IR-EX/CO2/O2/H2S/CO 4543752 X-am 5000 EX/O2/CO/H2S 4542261 X-am 2500 EX/O2/CO/H2S-LC 8326520 Dräger X-am5600 5Gas IR-EX/CO2,O2,H2S/CO 8326521 Dräger X-am 5000 4Gas-EX, O2, CO, H2S-LC 8326522 Dräger X-am 2500 4Gas-EX, O2,CO, H2S-LC
	SD card caching for modules disabled for update partition	
02.00.09 Release 22.08.2017		Several improvements to increase reliability
		New Linux kernal: Yocto
		New drop-bear version 2016.74
		New PDF creation with use of libHaru library (much quicker)
	Several bug fixes	
	Self test improved (validity of pressure errors)	
	Change of order: First config set before test gas evaluation	
		Bump test tolerances now are set in X-dock's gas configuration (not in instrument via CCV anymore)
		New languages: Portuguese

02.00.13 Release 07.11.2017	Several bug fixes	
02.02.11 Release 30.05.2018		Support of X-am 8000 and X-am 3500
		Support of Pac 6x00 and 8x00
		Support of new PID Sensor for X-am 8000
		Support of new Gases (eg. lbut, THT and MEM)
		Preparation of improved Vibration alarm test of X-am 5x00 (will become effective with upcoming FW 7.3 of X-am 5x00)
	Certificates of X-dock and X-dock manager now identical Tests of LH and HC sensors in one device now possible Several bug fixes for improved stability	REMOVED Support of CO for Pac 7000 OV devices
02.02.17 Release 10.10.2018	Fix of "Error Stop Mess 145" with X-am 125 FW 7.3	
	Autocal for PID sensor fixed	
	Tests of battery powered X-am 125 in charging modules now possible	
	Improved LED tests for Pac and X-am 125 devices	
	Slow reacting system (CPU load) fixed	
	Error message "Unrecoverable device error" when loading deeply discharged X-am 8000 in (+) modules removed	
	Several bug fixes	
02.02.19 Release 29.10.2018	Corrected config Migration during X-dock Update process	
	Removal of new LED test procedure	
02.05.03 Release 17.09.2019	Fix of sporadically wrong calibration date after adjustment of Pac instruments (5500/7000)	
	Fix of Incorrect reports due to incorrect values in the statistics counter	
	Fix of wrong "next test" date in the X-dock manager	
	Fix of Inductive charge failure on X-am 8000+ modules	
	Fix of several minor issues in the communication with the X-dock Manager	
03.00.13 Release 09.11.2020		Switch to encrypted communication to the X-dock Manager
		Communication information screen added
		Removed support for X-am 2000 devices
		New User Ex- and Import function

		Export functions with information according to the DSGVO
		New Screensaver
		Gas Cylinder list expanded
		Pac 6x00 and 8x00 devices can now be permanently stored in X-dock without high battery consumption
	Fix for test dates with “future” time frames	
	Fixes, in combination with X-dock manager software update v3.0.5, for “next test date” / calibration and bump test	
	Optical alarm element test improved	
	Correction Quick Bump Test when using cross calibration gas	
	Various further improvements of software stability	
	Various further improvements in the test procedure	
03.01.01 Release 26.04.2021		Implementation IoT hub communication for Gas Detection Connect
		New gases for Gas Bottle List added
	Fix of statistic counter issue	
	Fix of data logger transfer issue to X-dock Manager	
03.02.00 Release 25.10.2021		New UI design corresponding with Gas Detection Connect
		Improved onboarding dialog for Gas Detection Connect
		Small changes of the “System configuration” menu
		Info Screen updated
		“Reset to factory settings” option added
		Support of Pac Connect devices
		Support of new data logger format of Pac Connect devices
	Fix of Vitality calculation of Sensors produced 2021 or later	
	Several small bug fixes	
03.02.01 Release 16.11.2021	Fix of time zone bug (only 03.02.00)	
	Fix of daylight saving time bug (only 03.02.00)	
03.03.00 Release 20.07.2022		Support of X-am 2800
		Remote updateability for future updates via Gas Detection Connect.
		Support of FW updates for Pac 6x00 & 8x00 devices (not for Pac Connect devices) in conjunction with GDC or XDM

	Improvements of the test planning	
03.03.01 Release 16.09.2021	Fix of bug updating Systems with different FW version	
03.04.00 Release 14.12.2022		Support of new X-am 2800 FW
		Update functionality for X-am 2800 in combination with GDC added
	Factory Reset temporary removed from Menü	
	X-dock certificate of the X-am 2800 now includes all O2 alarms yellow result issue after a successful autocal in ExtBT and QBT fixed	
03.05.00 Release 25.05.2023		Support of X-am 2800 and X-am 5800 with FW 01.03.06
		Removed support of X-am 8000 FW < 1.3.29
03.06.00 Release 07.08.2023		Firmware updates from several Pac 6x00/8x00 firmware versions
		Support X-am 5000 FW version 8.0
	Fix of "time sync yellow screen" issue	
	Improvements of the test planning	
04.00.06 (Build 80) Release 02.08.2024		New Linux kernel: Zeus
		New Printer Concept: IPP Printing added, PCL support removed
		Support of X-am 5800 PID-HC neo
		Support of X-am 5800 IR Sensor
		Removed support of X-am 2500/5x00 FW older 7.6 (except 6.6)
		Device FW Update - are now possible even if GDC is not connected
		FW factory reset - reset to factory default is now possible for administrators
	Fix of database issues (crashes) after many tests	
	Fix of incorrect certificate export progress display	
	X-am 5800 now excluded from template config	
	Several small bug fixes	
04.00.06 (Build 81) Release 08.08.2024		New Linux kernel: Zeus
		New Printer Concept: IPP Printing added, PCL support removed
		Support of X-am 5800 PID-HC neo

		Support of X-am 5800 IR Sensor
		Removed support of X-am 2500/5x00 FW older 7.6 (except 6.6)
		Device FW Update - are now possible even if GDC is not connected
		FW factory reset - reset to factory default is now possible for administrators
		Change display settings option implemented
	Fix of database issues (crashes) after many tests	
	Fix of incorrect certificate export progress display	
	X-am 5800 now excluded from template config	
	Fix of FW update issues for X-am 2800/5800 FW01.05.04	
04.01.00 Release 06.12.2024		Support of X-am 2600 added
		Limited CatEx H2 100 support for X-am 8000 added
		X-dock update download refresh functionality added
		Service interval expired message can now be deactivated
		Expiry date for gas bottles changed to exact date
		Support of template Config removed
	Issues with Testplanner fixed	
	Issues with data logger read of X-am 8000 fixed	
	Several small bug fixes	