

Steam Trap Management System

Dr. Trap®

PM500

Steam Trap Management System PM500

Checker (PM520)

It detects the vibration and temperature in steam traps at the same time.

The survey accuracy has been improved from the previous model (PM321) by MIYAWAKI's sensor technology.



Checker (PM520)



* Tablet to be prepared by customer
* For Windows® only

Trap Survey App (PM510)

Trap Survey App (PM510)

The App will be installed on a tablet computer, which must be prepared by the customer.

It displays and stores survey results transferred from the checker using Bluetooth connection.

Software SurveyPro 4.0 (PM530)

The software will be installed on a personal computer. It aggregates and analyzes steam trap data from the Trap Survey App, identifying faulty steam traps, providing steam loss and financial loss data and includes many other possibilities to manage the steam traps easily.

It provides detailed charts and graphs.



* Standard and Special versions available

Software SurveyPro 4.0 (PM530)

Features of PM500

- **High-speed survey**

The special design of the vibration sensor integrating a contact-type thermocouple sensor guarantees a high survey speed. Each steam trap will be surveyed within 2 seconds at the shortest, and 10 seconds at the maximum.

- **Improved survey accuracy**

The holding mechanism of the probe tip ensures a pressing force, which reduces the discrepancy of survey results substantially.

- **Simple operation**

The checker is ergonomic shaped to handle and operate with one hand. The survey will start automatically by simply pressing down the probe on the trap with minimum force. It is possible to proceed with the survey uninterruptedly without using the tablet.

- **Improved durability**

Dust and water protection : IP34 (Conforming to IEC 60529)
Drop test (Conforming to IEC 60068-2-31)

- **Estimation of CO₂ emissions**

The software can estimate CO₂ emissions based on steam trap leakage amounts.

- **Full data compatibility**

After converting survey data generated by the previous version (V3.1), the data can be integrated into the new software without any problems.

Technical Specifications

Hardware	Weight		Sensor		Ambient working temperature		Max. surface temperature		Power supply *not included in package	Continuous operating (approximately) Hours	Working survey time Seconds	Bluetooth	
	g	lb	Vibration	Temperature	°C	°F	°C	°F				Interface	Communication distance
Checker PM520	220	0.49	Piezo-electro-ceramic sensor	Type K thermocouple	-5 to +50	23 to 122	400	752	2 x 1.2V AA size NiMH	8 (discharged capacity: 1900mAh)	10 (2 minimum)	Ver. 2.1 + EDR SPP	Approx. 5 m
	excl. battery												

Accessory: 1 x Soft case

Display: Transmission type TFT color liquid crystal

Software	Medium	Environment						Others
		Operating System	CPU	Memory (RAM)	Hard disk	Display resolution (pixel)		
Trap Survey App PM510*	CD-ROM	Windows 7, Windows 8/8.1, Windows 10 (32 or 64 bit)	1.6GHz or more	4GB or more	20GB or more free space (excl. Data area)	1280 x 800 or more	Bluetooth: Ver.2.1 + EDR SPP Microsoft NET Framework 4.5 Microsoft SQL Server Compact 3.5 SP2	
SurveyPro PM530 V4.0			1GHz or more	1GB (64bit: 2GB) or more		1024 x 768 or more		Microsoft NET Framework 4.5 Microsoft SQL Server Compact 3.5 SP2 USB Port, CD Drive

* PM510 is to be installed on a tablet. The above specifications of PM510 are hardware requirement for the tablet.

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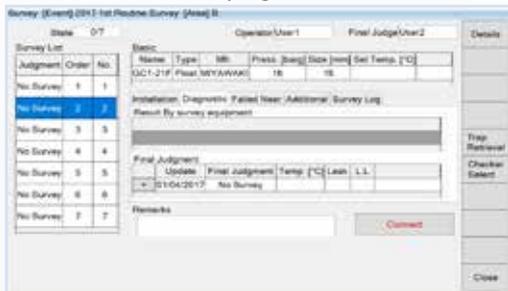
Trap Survey App PM510

The App displays and stores the survey results from the checker. It includes a lot of new and additional functions such as viewing and editing a survey map or a camera function. It can contribute to create a paperless environment. The available functions depend on the version of SurveyPro 4.0, standard or special.

Main Functions

Survey screen

The touch-screen tablet makes it easy to browse and edit a survey list. A lot of detailed information is available on the survey screen and can be edited there. The survey log information will be also displayed on the screen.



Survey map

A survey map can be displayed and edited on the tablet computer. The map can be associated with each steam trap on the survey list. Then, the order of the steam trap survey can be set.



Camera function

The camera function allows to take images and record videos on the Camera screen. It is possible to edit and save the images for each steam trap. The images and videos will be displayed on the detailed screen of each steam trap.

PM510 Function correspondence table

Several functions of PM510 are unavailable depending on the version of PM530.

[○] : Available, [-] : Unavailable

PM510 Function	PM530	
	Standard	Special
List Import/Export	○	○
List Retrieval	○	○
Edit Area	○	○
Survey	○	○
Survey map	-	○
Whole map	-	○
Edit Drawing	-	○
Camera	-	○

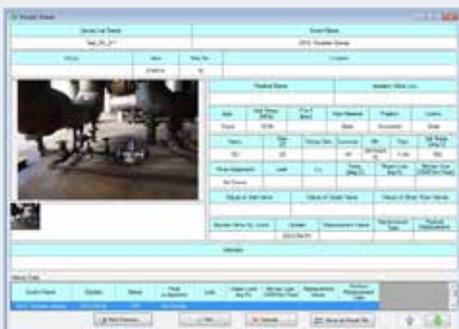
SurveyPro 4.0 PM530

The software was updated from SurveyPro V3.1. It offers to analyse survey data, view trends, and manage survey files. Same as V3.1, it displays various summary sheets and graphs depending on the purpose, and export them to Excel and image files. It helps to create survey reports. Standard and Special versions are available.

Upgraded Functions

Single Sheet

Each survey list can be displayed as a Single Sheet. Then, it can be exported to Excel as well. It is possible to browse and edit survey list detail information on the sheet at once.



Data Summary Sheet

Different from the previous version, SurveyPro V3.1, the data summary sheets will be displayed as one sheet. Consequently, it is easier to use various analysis functions to create summary sheets such as by Manufacturer and by Type.

The summaries of all data can be displayed in graphical form same as V3.1.

