STEAM TRAP CHECKER

STC-1™ helps to detect steam leaks at early stage easily so that energy saving effect can be expected.

By detecting steam leaks at early stage and exchanging failed steam traps, useless energy loss can be reduced.

Diagnose and exchange 1 time per year

Loss amount caused by steam leaks

37,500 USD/year

〈Calculation condition〉
20% (25 pieces) of steam traps (total number: 125 pieces) are leaking.
Leakage from a failed steam trap: 10kg/h, pressure 1.0 MPa
Operation: 12 hrs/day, 250 days/year, steam unit cost: 0.05 USD/kg

■ Specifications

Model	STC−1
Steam trap automatic diagnosis time	2 seconds or 8 seconds
Working pressure for steam trap automatic diagnosis	0.05~8.0MPa
Working temperature for surface temperature sensor	0~300℃
Automatic power off	After 5 minutes (While steam trap automatic diagnosis mode and not in operation)
Ambient temperature	0-40° C (Non-Freezing)
Where to use	Inside and outside (However, it should not be exposed to rain water).
Battery	DC1.5V AAA alkaline batteries 2pcs Continuous operating time: Approximately 8 hours(*1)
Accessories(*2)	Storage case, sensor cap, earphones

* 1 When using alkaline batteries (25℃, steam trap diagnosis mode).

■ Mode (Function)

Mode (Function)	Overview
Steam trap automatic diagnosis mode	Automatically diagnose the conditions of steam trap(※3)
Surface temperature sensor mode	Indicate the surface temperature of steam piping
Auscultation mode	Listen to the conditions of steam trap

※3 Results of automatic diagnosis of steam trap

Result	Working conditions of steam trap	LED's color
GOOD	Good condition	Green
CAUTION	Hard to judge whether GOOD or LEAK Caution required for the possibility of LEAK	Yellow
LEAK	High possibility of steam leakage	Red
LOW TEMP.	High possibility of clogged, not in service, or inadequately low capacity, because the surface temperature is low.	Yellow

■ Screen indicates diagnosis result.

Accessories(※2)

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STEAM TRAP CHECKER

STC-1™

Know-hows accumulated through long-term experience of diagnosing steam trap for clients
and technology cultivated through the process of developing Wi-flo, achieve simple and speedy diagnosis.

YOSHITAKE

STEAM TRAP CHECKER

STC-1™

www.yoshitake.jp/stc-1

STC-1 diagnoses working conditions of steam trap (leakage・clogging) automatically by vibration and temperature sensor.
STC-1 realizes qualitative judgement, diagnosis and management of steam trap, not being affected by personnel's experience.

Speedy diagnosis

Automatic diagnosis
2 Minimum seconds
Clogging: 2 seconds
Leak: 2 or 8 seconds
Good: 8 seconds

Display on the screen while diagnosing

Easy operation

Only 2-step operation realizes diagnosis,
while conventional automatic checkers required complicated procedures.
Consecutive diagnosis is possible under the same conditions.

Vibration function

Start and completion of diagnosis is notified by vibration generated by vibrator so that misdiagnosis can be reduced.
This enables operators to use STC-1 in blind situations including dark or narrow places.
(Patent registered)

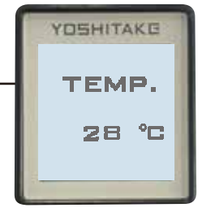
LED function

LED turns on when diagnosis completes, which is time-saving for operators.

LED shows diagnosis result by different colors (green, yellow, or red).

Switchable functions

Leakage and clogging of other steam valves besides steam trap can be detected by switching to surface temperature sensor mode or auscultation mode.



Auscultation or surface temperature measurement only is possible by easy switching operation.

Perfect size for holding

You can hold STC-1 with one hand and operate by one finger like a smartphone.
Special shape and fine material offer the comfortable grip.

Timer function

You can set a timer to make a delay necessary for inspection at high places or narrow places.
Diagnosis starts in 10 seconds.

※Please use this function only when the sensor top can reach the measurement point.

Extensible bar (to be prepared by customers) for inspections at high, distant or narrow spaces.

Auto power off function

Large LCD screen

A large LCD screen provides a clear visual experience, and it displays working conditions of the steam trap as time waveform.

Backlight function

Easy to read even in dark places.