

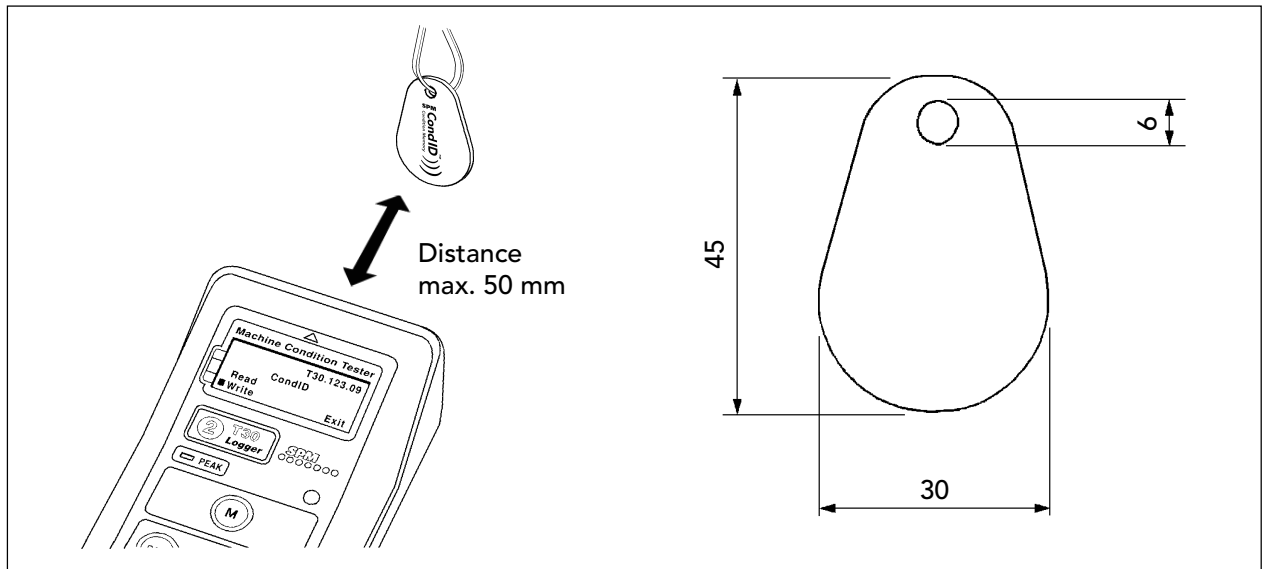


Quick start

CondID™, Condition Memory

using Tester T30 / Analyzer A30
and Condmaster® Pro 2.0





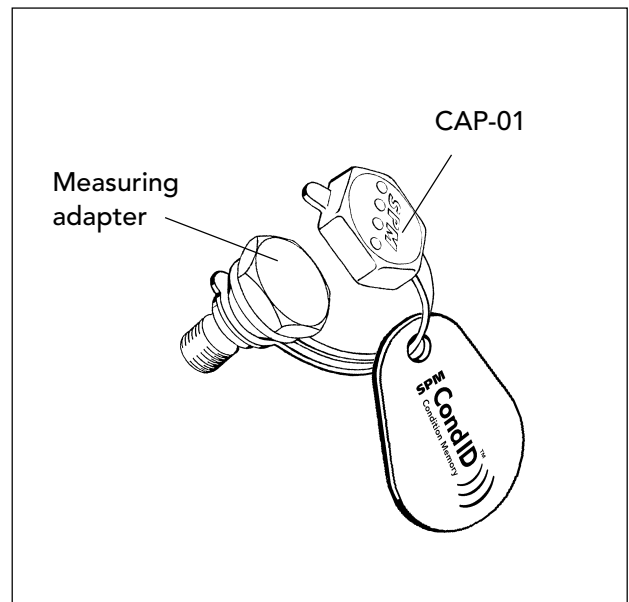
CondID™ is a contact free RF transponder used for measuring point recognition and condition memory. It is mounted on the adapter cap CAP-01 or strapped in a suitable place on the machine. CondID™ is used with the "Logger" and "Expert" versions of SPM Tester T30 and Analyzer A30.

CondID™ responds to a recognition signal when an SPM datalogger is held close to the tag. It contains all basic data for its measuring point: number, name, and all measuring techniques connected with it. If the measuring point is already loaded in the datalogger, it will be displayed, else it will be added to those in the data logger memory, programmed with all measuring techniques. CondID™ also saves the measuring results when the WRITE function is used after taking the readings.

SPM data loggers automatically receive a communication code from Condmaster®Pro 2.0 when a measuring round is downloaded. Using the WRITE function, the data for the displayed measuring point are sent to the tag. This links it to the measuring point. On uploading the round to Cond-master®Pro, the measuring point is marked with a CondID™ icon. To break the link, one simply removes this icon before downloading the point. The tag can then be linked with another point.

All tags are safeguarded and can only be read with SPM instruments. In addition, the user can set read and write passwords in Condmaster®Pro. These passwords are automatically sent to data logger and tag.

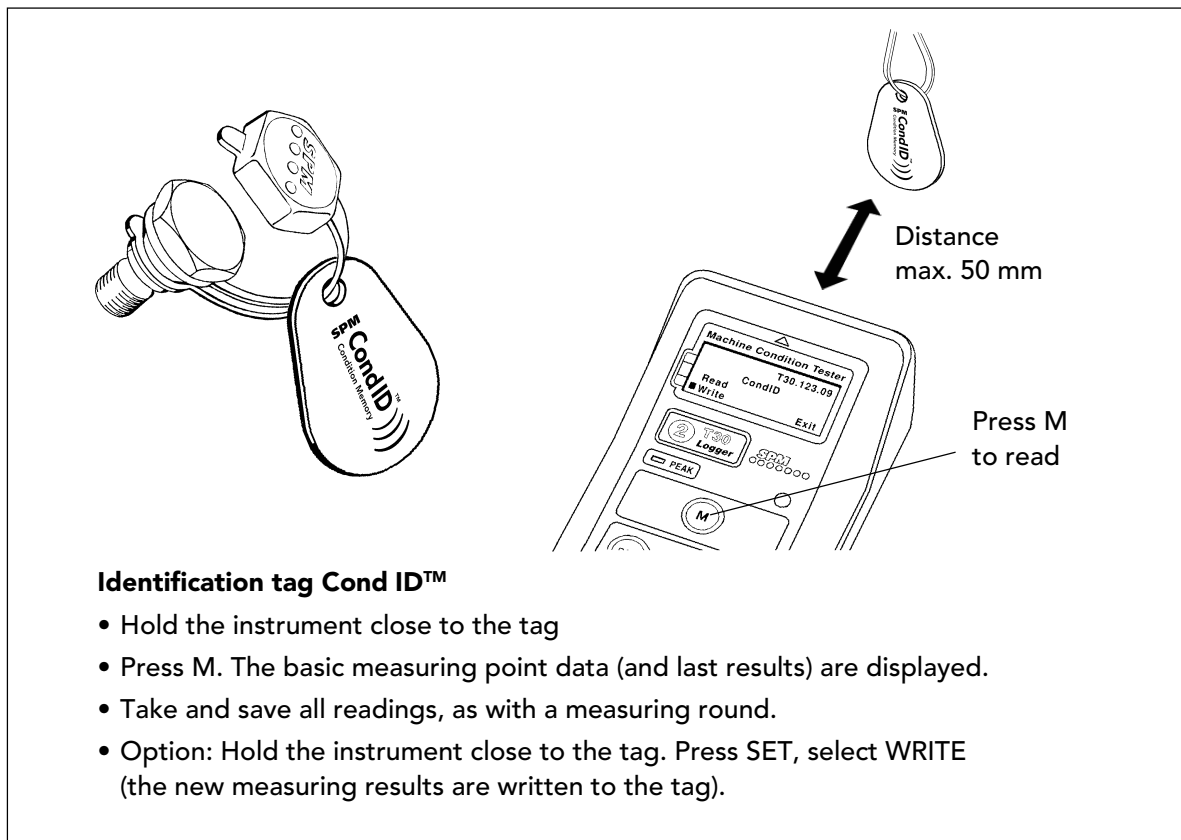
The tag memory is 116 characters. If this is exceeded, e.g. by long measuring point names, a menu will show that exceeding data is excluded, starting with truncating the measuring point name. The user can then edit the measuring point data to fit the tag memory.



Specifications:

Memory:	116 bytes
Resonance frequency:	125 ±6 kHz
Reading distance:	max. 50 mm with A30/T30
Material:	Glass fibre reinforced epoxy
Protection class:	IP66
Operating temperature	-40 to 85 °C
Environment:	Suitable for indoors and outdoors use
Dimensions:	30 x 45 x 2 mm
Part number:	SPM 14489





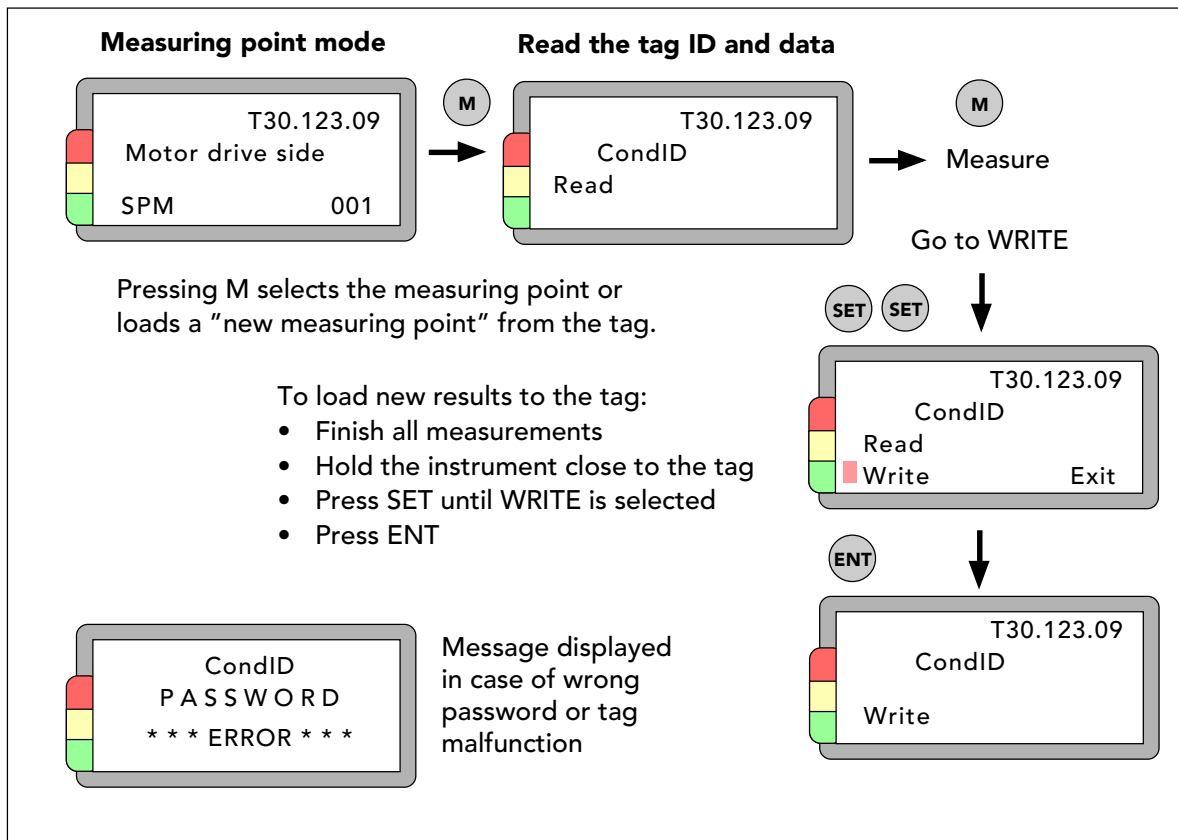
Identification tag CondID™

CondID™ is a contact free RF transponder used for measuring point recognition and condition memory. It is mounted on the adapter cap CAP-01 or strapped in a suitable place on the machine. CondID™ is used together with the "Logger" and "Expert" versions of the SPM Tester T30 and Analyzer A30.

CondID™ is activated and responds to a recognition signal when an SPM datalogger is held close to the tag and the M key is pressed. The tag contains all basic data for its measuring point: number, name, and all measuring techniques connected with it. If the measuring point is already loaded in the datalogger, it will be fetched and displayed, else it will be added to those in the data logger memory. CondID™ also saves all measuring results when the WRITE function is used after taking the readings.

The ID tags are made of glass fibre reinforced epoxy, suitable for indoors and outdoors use and temperatures from -40 to 85 °C.





Transferring the measuring point data to the tag

The data logger reads from the tag when you hold the display end, which contains an aerial, close to the tag and press the M key. To store the results of the measurement in the tag, you have to press SET until WRITE is marked on the menu, then press ENT. Comments attached to measuring results will not be written to the tag.

To initiate a tag and link it to a measuring point, do as follows:

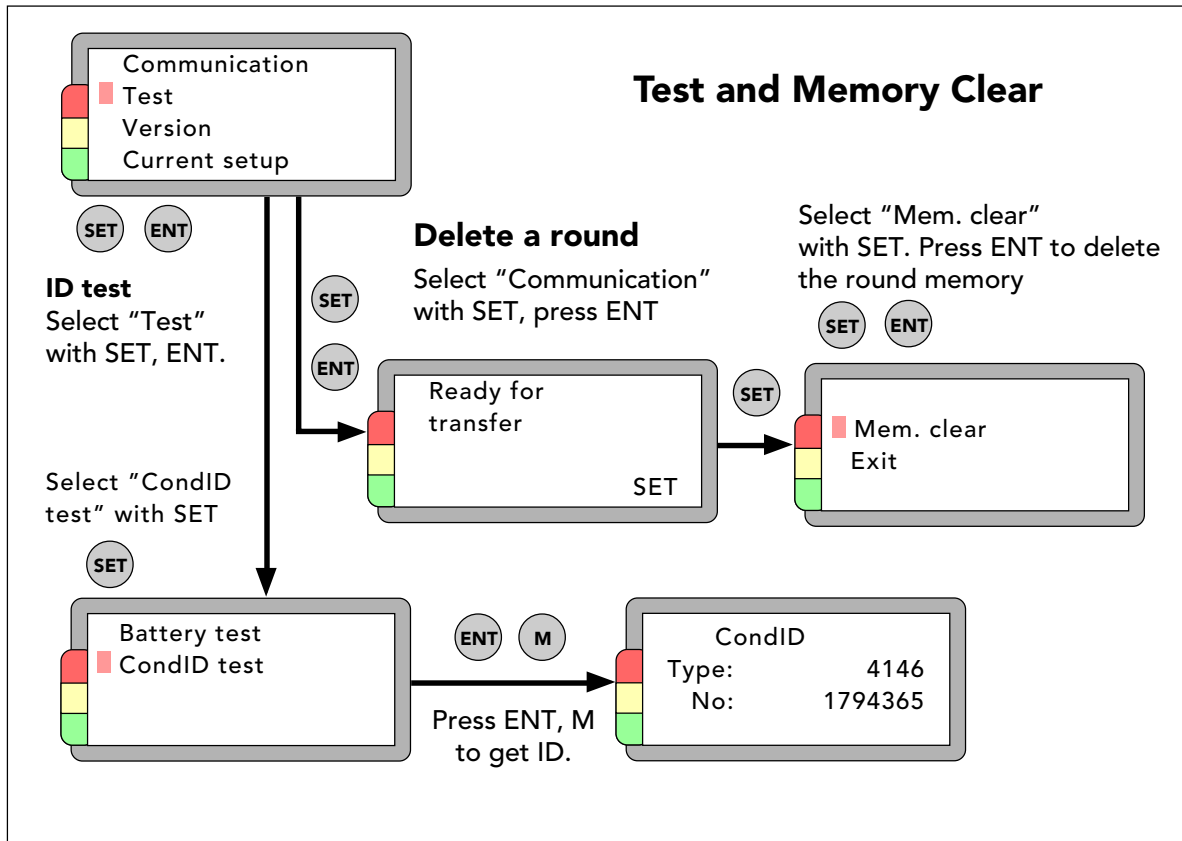
- Download the measuring points you want to "tag" to the data logger.
- Attach the tag to the machine. Pick a place that is easy to get at. The normal reading distance is 2 to 3 cm, max. 5 cm when the tag is at a right angle to the instrument.
- Hold the instrument close to the tag.
- Press SET until WRITE is selected, then press ENT.

This links the tag to the measuring point. On uploading the round to Condmaster®Pro, the measuring point is marked with a CondID™ icon. To break the link, you simply removes this icon before downloading the point. The tag can then be linked with another point.

The tag memory is 116 characters. If this is exceeded, e.g. by long measuring point names, the tag icon in Condmaster®Pro is marked with a red dot. This means that data have been deleted, starting with truncating the measuring point name. You can then edit the measuring point data to fit the tag memory (see Condmaster®Pro manual).

All tags are safeguarded and can only be read with SPM instruments. In addition, you can set (and change) read and write passwords in Condmaster®Pro, see Condmaster®Pro manual. These passwords are automatically sent to data logger and tag when you download measuring points. If you cannot establish contact with a tag, you may have the wrong password.





Testing ID tags and clearing the instrument memory

In case of an identification error you can test the identity of a CondID™ tag. The cause of the fault may be a missing link to the measuring point in Condmaster®Pro and not a tag or instrument malfunction. When both tag and instrument are OK, the tag will get the tag's ID number.

The same menu can be used to clear the instrument memory. Select COMMUNICATION and press ENT. The display shows READY FOR TRANSFER. Press SET. This puts the cursor on EXIT, so you cannot accidentally erase a measuring round by pressing ENT at this stage. SET, then ENT will clear all data.

The screenshot shows the 'Measuring point data' window with a tree view of measuring points. A red circle '1' highlights the 'Leakage, seals, general condition' technique. A red circle '2' highlights the 'Checkpoint description' field containing the text 'Leakage, seals, general condition'. A red circle '3' highlights the 'Save' button. A red circle '4' highlights the 'Enabled' checkbox in the 'CondID' dialog box. A red circle '5' highlights the 'Used: 145' memory usage value. A red circle '6' highlights a red dot next to the 'T-400.01 Pump motor N 11' measuring point in the graphical overview.

Many techniques (1) plus long names, numbers and texts (2) can use more memory than available

Tagged point:

- Tag icon in Graphical overview (6) and
- tag button in Measuring point register

Reduce data:

- Shorten names, texts
- Split techniques on two measuring point

Identification tag CondID™ in Condmaster®Pro

When an SPM Tester T30 or Analyzer A30 with the capability of reading ID tags is loaded with measuring points from Condmaster®Pro, the program will automatically send all necessary codes. For an open system without password there is no set-up for tags. For a system with the extra password protection, you have to input the passwords. Everything else is an automatic part of the downloading procedure.

You can use all available measuring techniques together with the tags, checkpoints included. They are initiated through a first WRITE command. The measuring points must then be uploaded to Condmaster®Pro. After that, the measuring point in the measuring point register will show a tag button (3), leading to a menu where you can disable (5) the link to the tag in case it gets lost or is used elsewhere.

In the measuring point tree, "tagged" measuring points are marked by the tag icon. If it shows a red dot (6), the tag memory could not accommodate all data. In such a case, data will be left out. This starts by shortening the measuring point name. Next, the checkpoint text is shortened/left out, then "Alternative measuring technique 2" is left out and others, working rear to front. The ID tag menu will show the used number of bytes (one byte = one character).

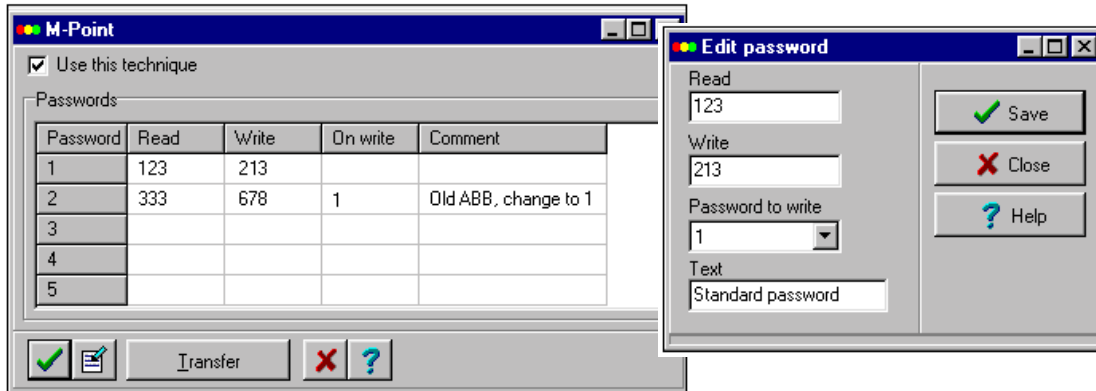
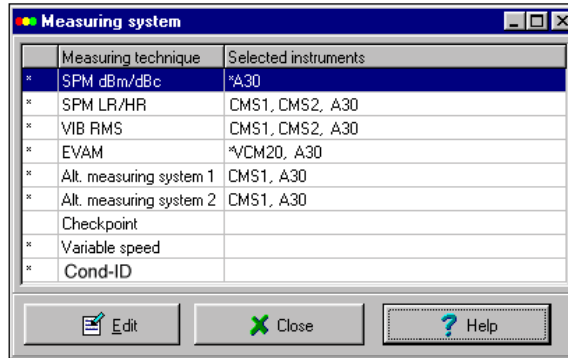
In case of memory trouble, edit the measuring point. You may be able to cut down on redundant information:

- Use short measuring point names and short texts for "check points".
- Define "Measured quantity" for "Alternative measurements" with as few characters as possible. Keep the result display format "##.##" to the minimum.
- Distribute the measuring techniques to two measuring points if necessary.



Setting passwords for tags

- Got to MEASURING SYSTEM under SYSTEM
- Mark COND ID, click EDIT
- Click EDIT to input, change
- Option: Transfer to data logger



Passwords for identification tags

All tags are safeguarded and can only be read with SPM instruments. In addition, you can set (and change) read and write passwords in Condmaster®Pro. These passwords are automatically sent to data logger and tag when downloading measuring points.

As passwords you can use the numbers 1 to 65000 or blank. Go to MEASURING SYSTEM under SYSTEM. Mark COND ID and click EDIT. The password menu has five lines with four columns. The first column is for READ protection. When your instrument has this password, it can read the tag and also write to it, unless a second password is input in the WRITE column. You can, for instance, give your READ password to the user of another Condmaster®Pro. If he sets it on this menu, he will be able to read your tags, but without your WRITE password he cannot write to them.

The third column, "On write", is used to change password. In the example above, there is a second set of passwords on line 2. The "On write" column on this line shows "1", i. e. it refers to line 1. The instrument can contact tag with both sets of passwords. However, when it writes to a tag having the passwords "333" and "678" (from line 2), it will write the passwords "123" and "213" (from line 1). After all tags have thus changed password, the old password can be deleted from line 2.

To input or change passwords, click on the EDIT button. The text you input appears in the "Comment" columns. The button TRANSFER can be used if you want to load a data logger with passwords (but not, as yet, measuring points). Connect the instrument to the COM port as with downloading measuring points.

Please note: The menu shown here is the only place where the passwords are set (and visible). The exchange of passwords between instrument and tag does not require any action on behalf of the user.

