### How does it work

### What is needed to perform a measurement

### Hardware

- 1 iiTRAK per compressor
- 2 AA batteries per iiTRAK
- 1 CF card per iiTRAK
- 1 CF card reader

### Software

- ME Box Configurator
  - Start-up the measurement
  - Download the results
- ACMBPG95
  - Analyse the measurement
  - Simulate with "best fitted" installation
  - Create repport



# Agenda

- Goal of the training
- What is the iiTRAK
- Why do I need the iiTRAK
- How does it work
- ME BOX CONFIGURATOR
- ACMBPG95
- Datasheet
- Graph
- Simulation
- Report
- Summary



- Used for the following tasks
- Create a configuration
- Start a measurement
- Download the measurement
- Analyse the data
- Visualize the graph of the measurement
- Export part of the graph in bitmap (pictures)
- Export the measured data to the ACMBPG95



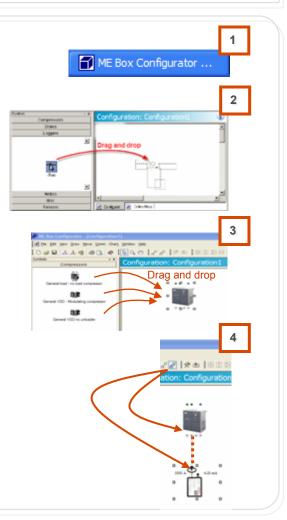
Steps to create a configuration

1. Open the ME Box Configurator

**2.** Drag and Drop an iiTRAK

- 3. Drag and Drop a compressor
  - Choose the compressor depending on your needs
    - General Load/Noload compressor
    - General VSD/Modulating compressor
    - General VSD/No unloader
- 4. Link the iiTRAK and the compressor

\*\*\* Repeat steps 2 to 4 for each compressor to be measured





Steps to Configure the iiTRAK

1. Save the configuration



- 3. Click on the configuration button
- 4. Locate the CF card reader

5. Extract CF from the reader and put it in the iiTRAK when counter comes to 00



3000 A 4-20 mA





iiTRAK data logger

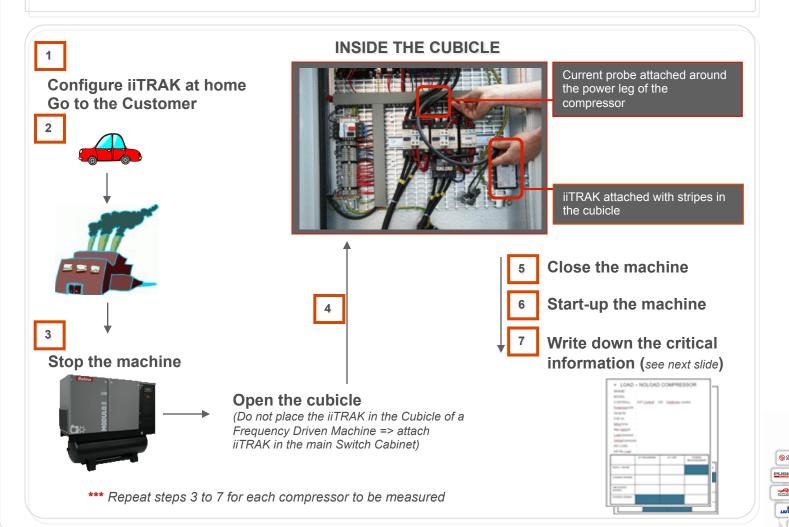


### Steps to Start the Measurement

- 1. Configure the iiTRAK(s)
- 2. Go to the customer
- 3. Stop the machine
- 4. Open the machine
- **5.** Connect the iiTRAK
- 6. Close the machine
- 7. Start the machine
- 8. Writhe the CRITICAL INFORMATION



Steps to Start the Measurement



	LOAD	1 A L	$\bigcirc$	
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BRAND

MODEL :

CONTROLL : E/P Controll OR Elektronic control

Powersize kW:

Serial Nr :

FAD I/s :

Idling time :

Max starts/h :

Load pressure :

Unload pressure:

kW LOAD

kW No-Load :

	AT BEGINNING	AT END	DURING MEASUREMENT
DATE + HOUR			
LOADED HOURS			
UNLOADED HOURS			
STOPED HOURS			

### FREQUENCY DRIVEN

BRAND :

MODEL :

Powersize :

Serial Nr :

FAD : MIN = Max =

Unloader : Yes / No

Setpoint (bar) :

Indirect Stop (bar):

Direct Stop (bar):

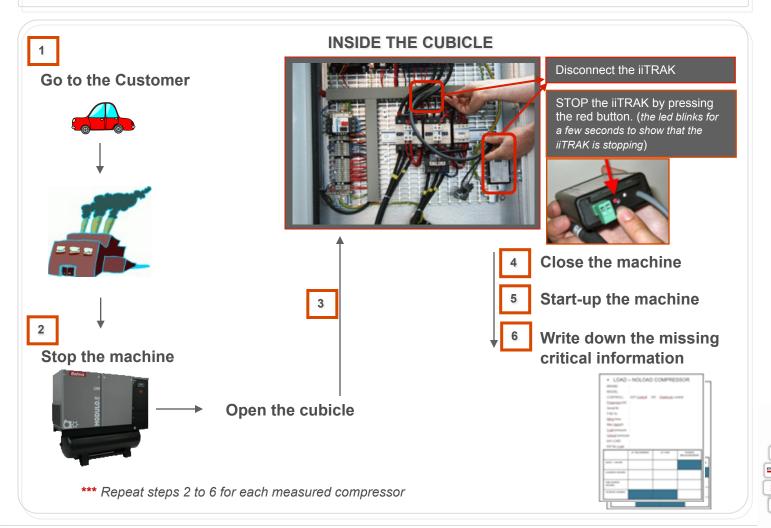
Max speed kW:

Min speed kW:

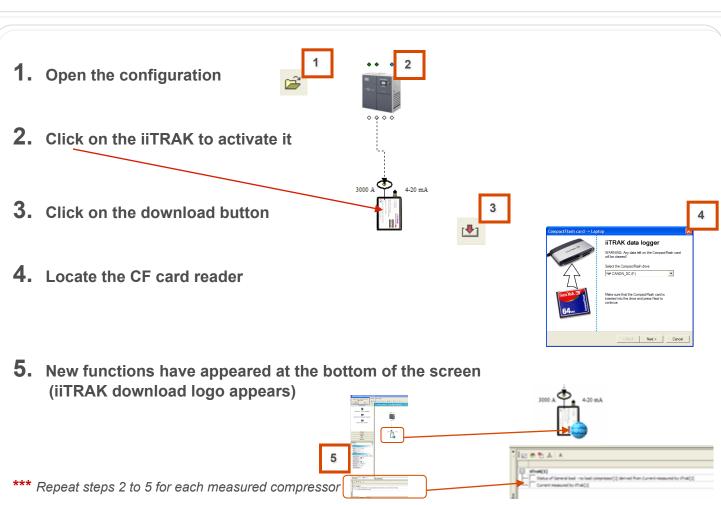
NoLoad kW

	AT BEGINNING	AT END	DURING MEASUREMENT
DATE + HOUR			
RUNNING HOURS			
Volume of Compressed air produced			
STOPED HOURS			

Steps to Stop the Measurement

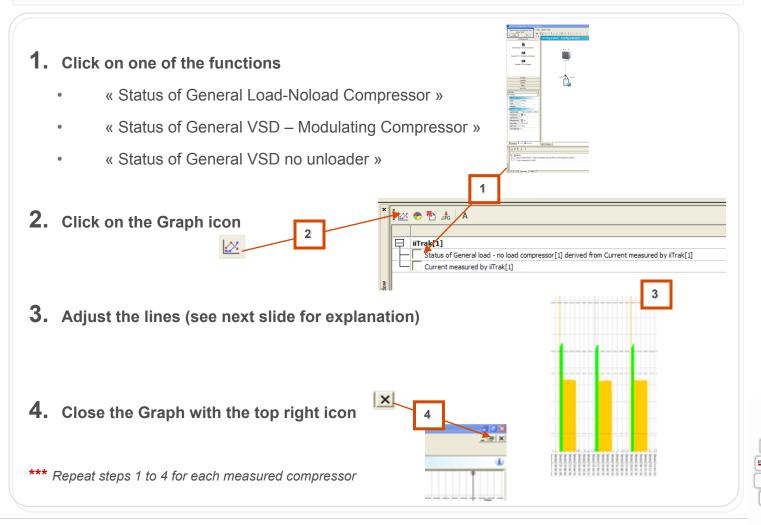


Steps to Download a Measurement





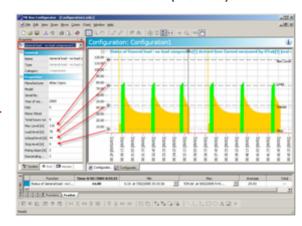
Steps to Analyse the data



- Adjust the lines for LOAD / NOLOAD Compressors
- There are 4 lines: MAX LOAD NOLOAD STOP
  - Below STOP line => STATUS = Stopped (Grey)
  - Between UNLOAD and STOP lines => STATUS = Unloaded (Yellow)
  - Between LOAD and UNLOAD lines => STATUS is depending on the current slope (Yellow OR Green)
  - Between MAX and LOAD lines => STATUS is LOADED (Green)
  - Above MAX line => STATUS is Unloaded (Yellow)

You can move the lines by:

- 1. Sliding them
- 2. Filling in the correct values





- Adjust the lines for Frequency Driven Compressors
- There are 4 lines: MAX LOAD MIN LOAD UNLOAD STOP
  - Below STOP line => STATUS = Stopped (Grey)
  - Between UNLOAD and STOP lines => STATUS = Unloaded (Yellow)
  - Between MIN LOAD and UNLOAD lines => STATUS is depending on the current slope (Yellow OR Green)
  - Between MIN LOAD and MAX LOAD lines => STATUS is LOADED (Green)
  - Above MAX LOAD line => STATUS is LOADED (Green)

You can move the lines by:

1. Sliding them

2. Filling in the correct values

