

# Guide to decide how much hardware you'll need

## How many Measure points do we need?

Use the following guide to identify how many measure points you need.

“Guide to configure machine signals” (step 1)



## How much hardware do we need to for our Measure points?

RS Production is very flexible on how you can combine machine signals, RS Blackbox, Measure points and Operator tools clients. Actually, you can set up any combination you can imagine.

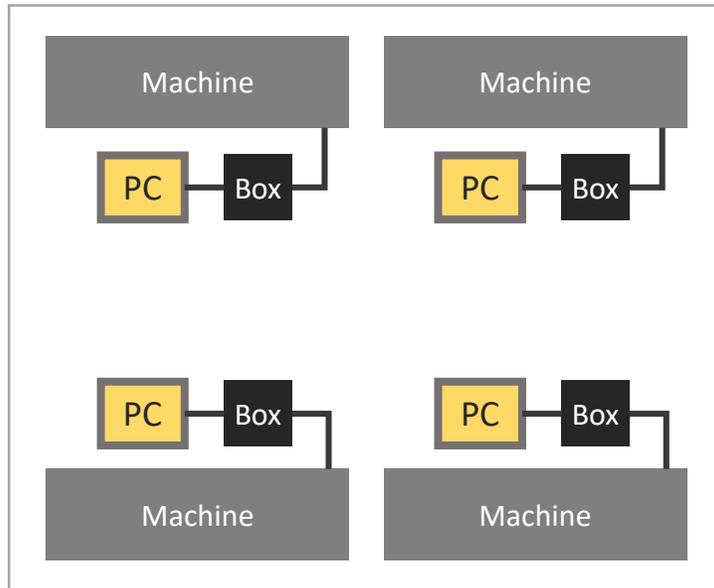
## OPC data collection

If you use OPC for data collection you will not need RS Blackbox

# Guide to decide how much hardware you'll need

A

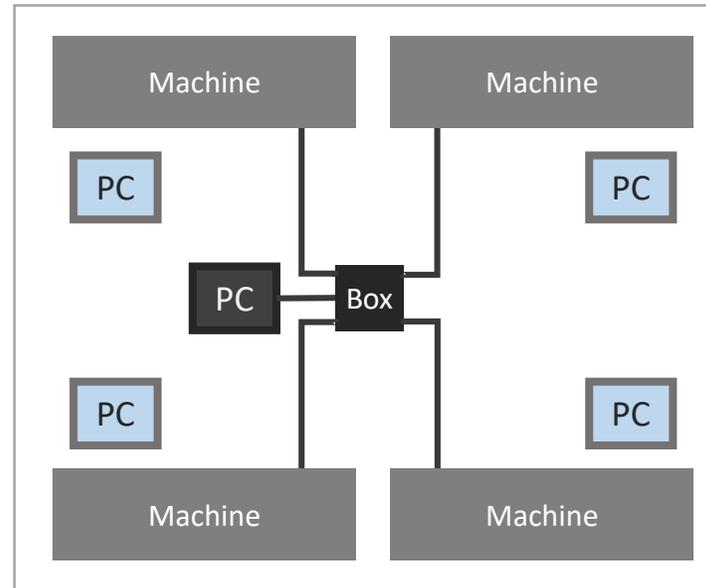
One piece of hardware per machine



4 x Measure point  
4 x RS Blackbox  
4 x PC for logging and Operator tools

B

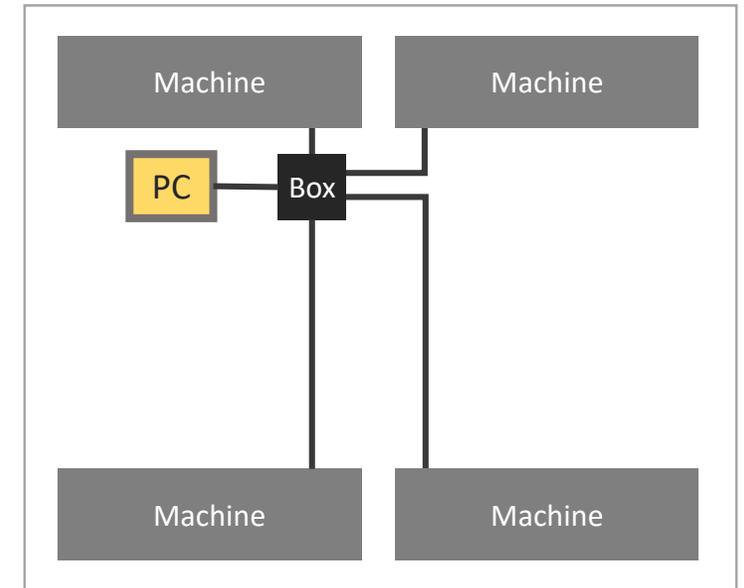
One central RS Blackbox and local Operator tools PC for each Measure point



4 x Measure point  
1 x RS Blackbox  
4 x PC for Operator tools  
1 x PC for logging machine signals

C

One central RS Blackbox and one central Operator tools PC for several Measure points

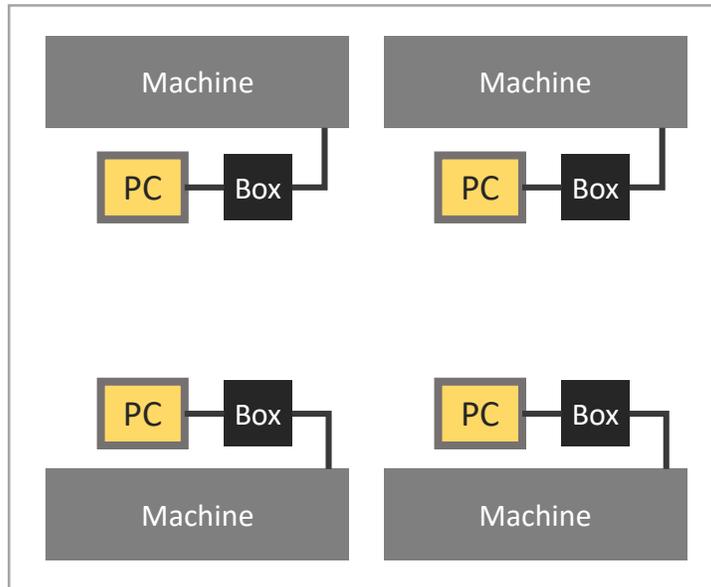


4 x Measure point  
1 x RS Blackbox  
1 x PC for logging and Operator tools

# Guide to decide how much hardware you'll need

**A**

**One piece of hardware per machine**



4 x Measure point  
4 x RS Blackbox  
4 x PC for logging and Operator tools

## A – One piece of hardware per machine

### Advantages

- + User interface very close to where operators runs the machine/station
- + Operator tools has instant access to machine data even without connection to the central server and real time data is therefor not at all depending on infrastructure like database/server/network
- + Easy to document, support and maintain hardware connection and setup
- + No risk that power shut down on one machine effects the data collection at another machine

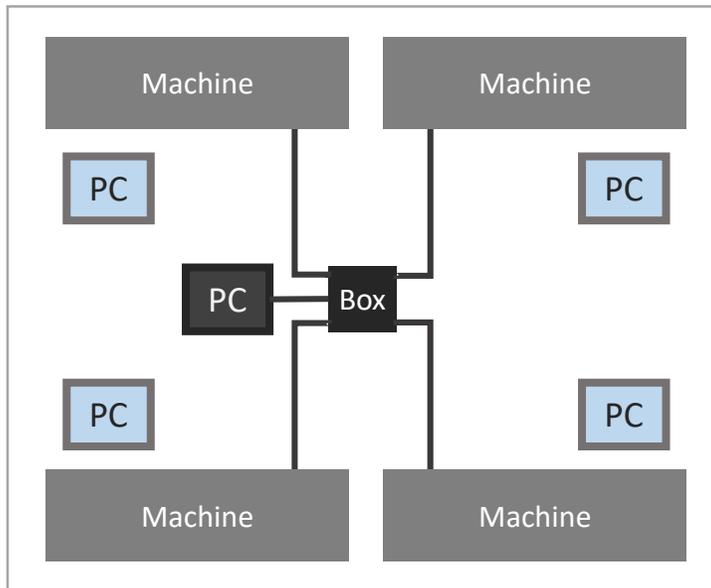
### Risks

- No known risks

# Guide to decide how much hardware you'll need

**B**

**One central RS Blackbox and local Operator tools PC for each Measure point**



**B – One central RS Blackbox and local Operator tools PC for each Measure point**

## Advantages

- + User interface very close to where operators runs the machine/station
- + Easy to overview all machine signals on one central spot
- + Possible to maintain the logging PC without disturbing the Operator tools PCs
- + Reduces hardware costs

## Risks

- Problems with network/sever/database will effect the real time updates on the Operator tools clients.

4 x Measure point

1 x RS Blackbox

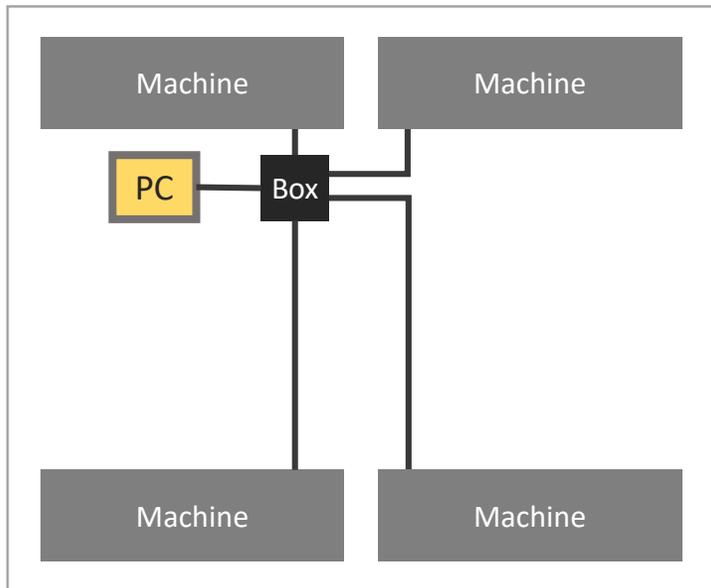
4 x PC for Operator tools

1 x PC for logging machine signals

# Guide to decide how much hardware you'll need

C

One central RS Blackbox and one central Operator tools PC for several Measure points



**C – One central RS Blackbox and one central Operator tools PC for several Measure points**

## Advantages

- + Easy to overview all machine signals on one central spot
- + Maximum reduction of hardware costs

## Risks

- Operators don't have Operator tools available on all machines and must remember to go to the central Operator tools client
- Problems with network/sever/database will effect the real time updates on the Operator tools clients.

4 x Measure point

1 x RS Blackbox

1 x PC for logging and Operator tools