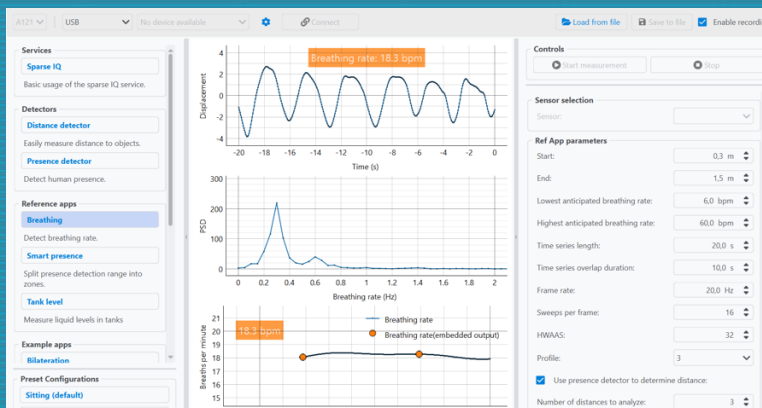


# Breathing A121

## Reference Application

### EXPLORE THE NEXT SENSE

A reference application is Acconeer's way to give our customers a jump start in their development. The Breathing Rate application has been tested and verified to provide accurate results on four basic scenarios: A person sitting, a person lying down (long and short distances), and an infant lying down. We optimize the performance by first measure the distance to the person and then autoconfigure the breathing application using that distance. By doing so, we minimize the measured range and the amount of data produced, leading to lower MCU usage and lower power consumption. The Breathing Application can be used on our XM125 Module or on a custom design by you.



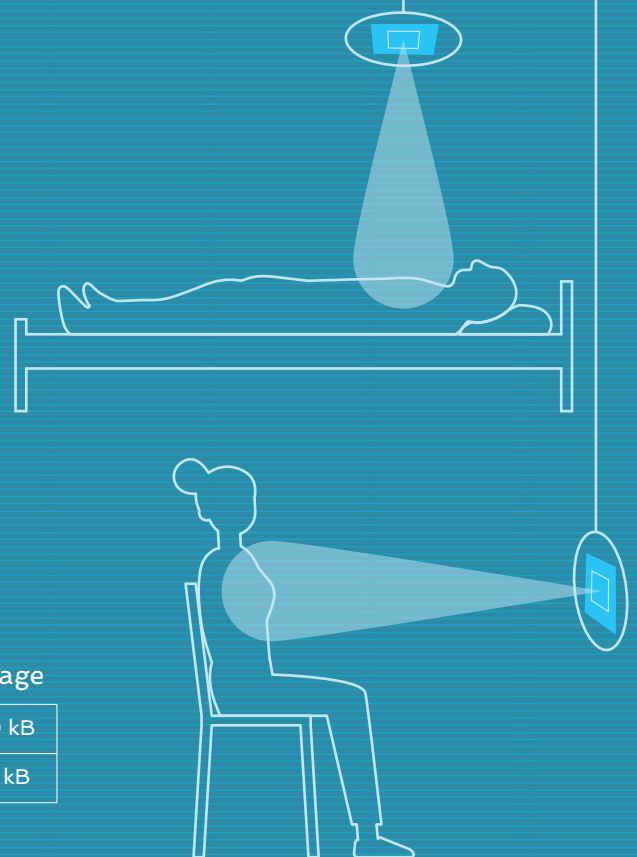
In the example above, we measure an adult lying on a bed with the sensor mounted 0.7 m above the bed. The sensor could also be placed on a nightstand or as far away as 2 m from the bed (such as in the ceiling).

	Distance to person	Measured rate	Reference rate
Adult sitting	0.7 m	15.9	15
Adult lying	0.7 m	18.3	18
Adult lying	1.8 m	8.7	9
Infant lying	0.4 m	18.4	18

#### Memory usage

FLASH	90 kB
RAM	21 kB

Proof of concept for Breathing use case



Download SDK including reference application at:  
[developer.acconeer.com](https://developer.acconeer.com)

