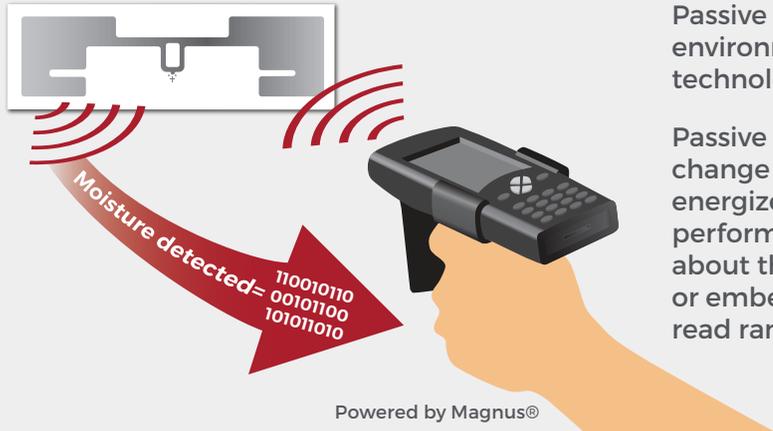


# PASSIVE MOISTURE SENSING

## WHAT ARE PASSIVE MOISTURE SENSORS?



Passive Moisture Sensors are opening a new frontier of environmental sensing where traditional sensing technology cannot go.

Passive moisture tags sense moisture levels by the change of impedance of the RF waves when the tag is energized by a reader. Software can then display, log, and perform various calculations to provide useful analysis about the object being sensed. These tags can be affixed or embedded into most materials and have an average read range of 15-22 feet.

Metalcraft's passive moisture sensing tags are much smaller, thinner, and more flexible than battery-powered sensors, and they are more cost efficient than active wireless sensing tags.

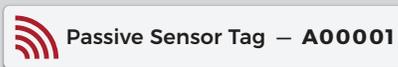


## ADVANTAGES OF PASSIVE MOISTURE SENSORS



- Smaller, thinner, more flexible than other current moisture sensing tags
- More economical than current active and semi passive moisture sensing tags
- Viable cost-effective option for high-volume or disposable sensing applications

Ultimately, putting more sensing tags in more places will provide higher quality data leading to better decision making, better processes, and better products.



## COMMON APPLICATIONS



Moisture Exposure



Moisture Penetration



Moisture Detection



### INDUSTRIES:

• **Automotive, Aircraft, and Vehicle Assemblies:** Support automotive quality control and autonomously detecting leaks in assembled vehicles with pinpoint accuracy.



• **Healthcare:** Wirelessly detect incontinence events, helping improve patient health and dignity.



• **Construction:** Sense moisture of wood and other building materials, monitor humidity inside sheets of plywood, and detect moisture building up inside walls where mold can grow out of sight.



• **Road and Bridge Maintenance:** Moisture ingress monitoring in road beds and bridge decks can provide data for scheduling preventative maintenance and help determine which surfaces need repair or replacement.

For more information about passive moisture sensors and how they could work for you, contact one of our Metalcraft ID specialists.

