



## FLIR MR277 ENABLES IDEA INSPECTORS TO LOCATE MOISTURE PROBLEMS FASTER

Investigating a building for moisture problems typically requires inspectors to bring multiple tools on site, including a moisture meter, a psychrometer and a thermal imaging camera. But when Lorenzo Torreti of IDEA Servizi Tecnici got the opportunity to test the FLIR MR277 building inspection system, he found all this functionality packed into one compact, but powerful instrument.

Based in Pomezia, south of Rome, IDEA Servizi Tecnici offers a wide range of inspection and consultancy services for the building industry. The company provides thermography inspections, land surveys, drone inspections, laser scanner measurements, thermohygrometric surveys (for relative humidity and ambient temperatures), and much more. In this wide variety of services, there is one common thread: the company works with the best tools available on the market, so it can offer customers excellent service.

Better tools not only enable IDEA inspectors to work faster, but they also allow them to detect building issues in the earliest stage. When it comes to humidity and moisture problems, early detection is critical, because the faster you can locate these building problems, the faster you can make repairs. Which is why Lorenzo Torreti, thermographer at IDEA, was delighted to have the opportunity to test the new FLIR MR277 building inspection system with moisture hygrometer and thermal camera.

The FLIR MR277 combines the advantages of thermal imaging and FLIR's patented Multi-Spectral Dynamic Imaging (MSX®) with advanced environmental sensors to help professionals quickly locate, clearly identify, and easily document moisture problems.

### MULTIPLE TOOLS IN ONE INSTRUMENT

"The FLIR MR277 is an incredibly versatile instrument that combines different functionalities all into one," says Lorenzo Torreti. "Now building professionals can go into the field and be confident they have all they need for their inspections with this one instrument from FLIR."

A typical inspection job without the MR277 would include bringing several tools: a thermal camera to scan larger areas for moisture, a pinless moisture meter for more detailed destructive or non-destructive moisture measurements, a psychrometer for measuring temperature, humidity, wet bulb and dew point, and a visible camera for adding more location information to the report. All these functionalities are now included in the MR277 building inspection system. Torreti often carries along an additional data logger, which records humidity readings over time.



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“With the MR277 building inspection system, I can work much faster and lighter, because I don’t have to switch instruments all the time,” says Torreti. “The thermal imaging camera on the MR277 provides very accurate readings. If I want to perform more precise thermal readings, I can always bring my more advanced FLIR E-Series camera, but for many measurements, the MR277 provides all the accuracy you need.”

### SEAMLESS REPORTING WITH INTEGRATED DATA

Torreti is also using the MR277’s BlueTooth connectivity to transfer measurement data to a mobile device with the FLIR Tools app. Here too, the combined functionality of the MR277 allows the user to download all required data from one instrument and analyze it with one piece of software.

“Using different measurement devices also means that you have to install and use different software programs if you want to download data from that device,” says Torreti. “With FLIR Tools, I now only need to use one piece of software that integrates all data into a single report. Everything, from thermal and visual images to hygrometer readings and laser location can be seamlessly transferred into the FLIR Tools app. I can also easily take screenshots from my moisture and temperature readings and just drag and drop everything into the software. I no longer have to write things down, which makes my routine fast, easy, and less prone to mistakes.”

The conclusion after a few months of using the FLIR MR277 is clear. Says Torreti, “The FLIR MR277 is a light and compact moisture meter that combines so much functionality into one device. We are usually using the MR277 to inspect constructions after they have been built, but as the MR277 is so easy to use, I think that many more building professionals should carry this tool. It can prevent problems during the construction phase as well. For example, builders could use it to see whether a wall has been dried well enough. The MR277 can speed up construction works and give them more certainty on the condition of their constructions.”



Without the FLIR MR277, you would typically use a thermal camera, a pinless moisture meter, a psychrometer, and a visible camera. All these functionalities are now included in the MR277 building inspection system.



Building professionals can use the FLIR MR277 to prevent problems during the construction phase, for example, to see whether a wall has been dried well enough.



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