# ams launches AS7225 tunable-white lighting smart system sensor

**Sensor-driven system-on-a-chip lighting family expands to speed OEM and market adoption of variable-CCT and daylight-responsive LED lighting**

Premstaetten, Austria (28 March, 2017) -- ams (SIX: AMS), a leading worldwide supplier of high performance sensor solutions, today announced the AS7225 tunable-white lighting smart system sensor, further broadening the solution set for sensor-integrated tunable-white lighting solutions. With the addition of the AS7225, OEM lighting manufacturers can access ams' closed-loop CCT tuning and daylight compensation, while retaining the existing host microprocessor architecture in their smart lighting design. The result is higher precision, more flexible LED binning, and lower system costs for tunable white lighting systems.

The AS7225 is equipped with the product family's industry-first embedded tri-stimulus CIE XYZ color sensor to enable precise color sensing with direct mapping to the International Commission on Illumination (CIE) 1931 color space which is recognized as the standard coordinate definition for human color perception. CCT and daylighting tuning directives are communicated to the host microprocessor via an industry-standard I$^2$C interface, allowing IoT smart lighting manufacturers to avoid costly calibration and tuning algorithm development and reduce time to deployment.

"As the lighting industry moves to tunable solutions, the inclusion of closed loop sensor-driven integration not only increases white or daylighting tuning precision, it also loosens the required precision for both LED binning and system components. This results in cost reductions for both the overall bill of materials, as well as in time and cost savings in the materials management and manufacturing processes", commented Tom Griffiths, Senior Marketing Manager at ams.

The AS7225 is an extension of ams' Cognitive Lighting™ smart lighting manager family. The efficient AS7225 is available in a 4.5 x 4.7mm LGA package, for flexible integration into luminaires, light-engines and larger replacement lamps, such as LED linear T-LED products. The device provides precise CCT tuning direction between configured warm and cool white LED strings within a luminaire. In addition to the CCT- tuning functions, the AS7225 can additionally be used looking outward in luminaire designs to provide precise daylight management, or can deliver combined CCT-tuning and daylighting directives by the addition of ams' TSL4531 ambient light sensor.

"Recent trends in LED device pricing show that chips have moved away from being the primary cost element in a typical commercial luminaire. This means that in just a few years, tunable lighting will become the standard for new commercial lighting installations", Griffiths added. "The comfort, productivity and health benefits of good lighting have been clear for decades, and as it is becoming cost effective to do so, tunable lighting will be a key element in delivering those benefits from LED smart lighting platforms."

**Press Release**
ams' tunable-white lighting smart system sensor
further enables OEM tunable and daylighting adoption

Key features of the AS7225 include:

- "Calibrated for life" Tri-stimulus XYZ color sensor for direct mapping into the CIE color space

- Comprehensive register-driven command set enabling complete sensor control plus management of precision tuning directives

- Integrated support for tunable white, daylighting or combined functionality

Pricing for the AS7225 spectral tuning IoT smart lighting manager is set at $2.40 in quantities of 5,000 pieces, and is available in production volumes now. For further information, please visit our website at www.ams.com/Smart-Lighting/AS7225 or contact CognitiveLighting@ams.com.

**About ams**

ams is a global leader in the design and manufacture of advanced sensor solutions. Our mission is to shape the world with sensor solutions by providing a seamless interface between humans and technology. ams' high-performance sensor solutions drive applications requiring small form factor, low power, highest sensitivity and multi-sensor integration. Products include sensor solutions, sensor ICs, interfaces and related software for consumer, communications, industrial, medical, and automotive markets.

With headquarters in Austria, ams employs over 3,300 people globally and serves more than 8,000 customers worldwide. ams is listed on the SIX Swiss stock exchange (ticker symbol: AMS). More information about ams can be found at www.ams.com

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|---|---|
| **ams AG** | **ams AG** |
| Otilia Ayats-Mas | Tom Griffiths |
| Director Marketing Communications | Senior Marketing Manager, Color + Spectral Sensing |
| T +1 469 298 4277 | T +1 512 330-9124 |
| press@ams.com | tom.griffiths@ams.com |
| www.ams.com | www.ams.com |