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(57) **ABSTRACT**

The present disclosure discloses a network-based measuring system, including a first sensor, at least one second sensor, and at least one intermediate unit, wherein the first and/or second sensor are electrically connected to the intermediate unit via a connection. The first and second sensors are supplied with power via the connection and data is exchanged bidirectionally. The connection comprises a network-based protocol, wherein the intermediate unit is connected to a higher-level unit, wherein the first and second sensors exchange data with one another without knowledge of the higher-level unit.

