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Mellert et al.(10) **Pub. No.: US 2024/0237241 A1**(43) **Pub. Date: Jul. 11, 2024**(54) **FIELD DEVICE WITH RADIO MODULE  
AND METHOD FOR REMOTE DATA  
TRANSMISSION**(52) **U.S. Cl.**  
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(2013.01); **H05K 9/0081** (2013.01)(71) Applicant: **VEGA Grieshaber KG**, Wolfach (DE)(72) Inventors: **Martin Mellert**, Steinach (DE); **Natalie  
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Müller**, Mühlenbach (DE)(21) Appl. No.: **18/403,475**(22) Filed: **Jan. 3, 2024**(30) **Foreign Application Priority Data**

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**H05K 5/02** (2006.01)  
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**H05K 9/00** (2006.01)(57) **ABSTRACT**

A field device, in particular, a fill-level, point-level, flow, pressure or temperature-measurement device, with a housing, an electrical connection line led into the housing via a cable feedthrough, and a radio module held in the housing for remote data transmission, wherein the radio module is arranged and designed in such a way as to transmit a remote data-transmission signal by means of a field coupling. A section of the connection line located in the housing transmits or receives signal into or out of a section of the connection line located outside the housing. The invention also relates to a method for remote data transmission by means of a radio module housed in a housing of a field device.

