



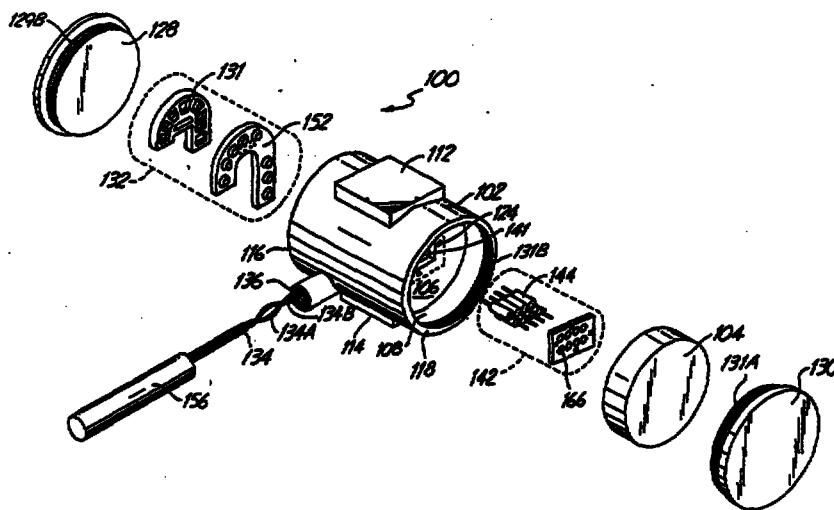
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(54) Title: TRANSMITTER WITH MOISTURE DRAINING HOUSING AND IMPROVED METHOD OF MOUNTING RFI FILTERS



(57) Abstract

A transmitter (100) transmitting a sensed process variable over a conductor (134A, 134B) includes a cylindrical housing (102) having a terminal compartment (110) and an electronics compartment (108) separated by a bulkhead (106). The terminal compartment (110) used for conductor connection is subject to moisture accumulation. An access channel (136) fully intersects an internal surface of terminal compartment (110) such that the access channel (136) drains moisture from the terminal compartment (110) across a range of mounting orientations. The transmitter (100) includes a circuit (104) in the electronics compartment (108) for compensating a process variable and providing the compensated process variable via a feedthrough circuit assembly (142) in the bulkhead (106), which in one embodiment, includes an encapsulated radio frequency interference filter (144), to terminals (132A, 132B) in the terminal compartment (110) for coupling to a conductor (134A, 134B) that is connected to an external controller.

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