Thermal measurement errors resulting from
- the coupling of the sensor with the medium
  $\Delta T_m(t)$ - dynamic measurement error
- the coupling with environment
  $\Delta T_m$ - static measurement error

$D T(t) = T(t) - T_{th}$

Influence quantities  Disturbance variables

$T_M$  $T_S$  $X_A$  $X_A^*$  $T_M^*$

Sensing element (primary transformer)  Secondary transformer  Digitalization/linearization

$U_i$  $Z_i$