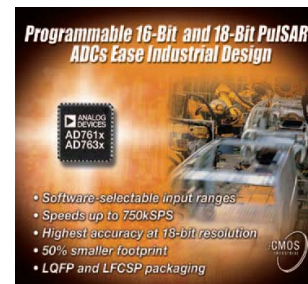
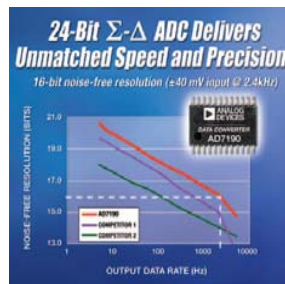
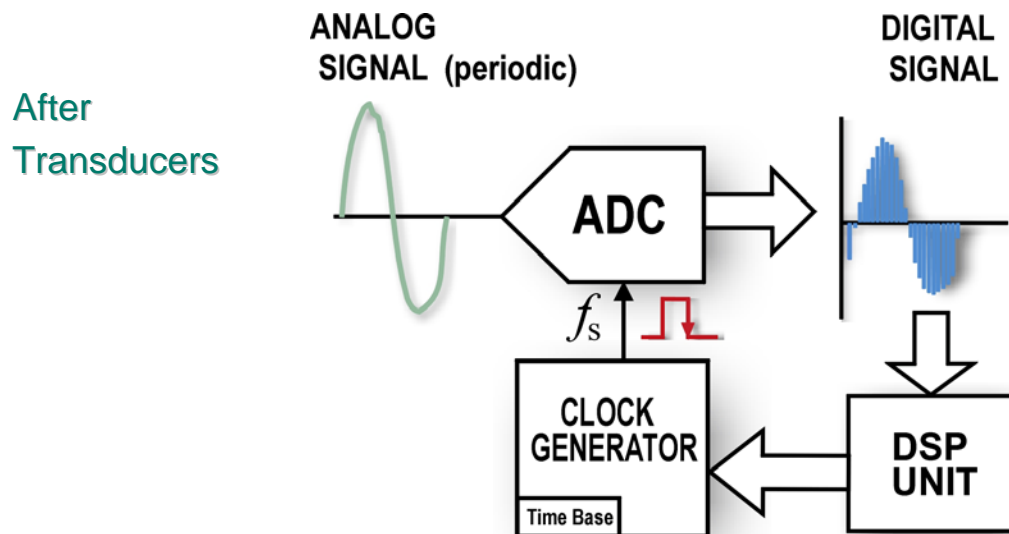


PRECISION DIGITIZERS FOR POWER & ENERGY MEASUREMENTS

(W. G. Kürten Ihlenfeld – PTB)





Metrology Grade Digitising Technology for Power Quality Measurements (PTB, NPL, MIKES, TRESICAL, VSL, METAS, LNE, INRIM)

- 1. Compact three phase voltage digitiser up to the 50th harmonic of the mains (PTB).**
 - a) ADC interface with USB to PC, b) self-cal., c) Self-Locking (pat. pending) & asynch, c) DSP is a PC, d) Ultra-Linear & unc. < 10 ppm, e) for lab. applic. (RMS, Phase, Ratio, & self-checking), f) Allow other ADCs to be used, e.g., A3458A, AD7763 (Sigma-Delta) & SAR AD7767.
- 2. Portable three phase digitiser for on-site measurement of the high voltage grid (NPL, MIKES).**
 - a) ADC 7767 interfaced to AD DSP (pre-processing data) & Wireless data transfer, b) asynch. Sampling, c) further DSP is a PC, d) Ultra-Linear & unc. < 50 ppm (close to above), e) for live lines.
- 3. & 4. Wide band digitisers for transient and impulse measurements (TRESICAL, VSL).**
- 5. Metrological characterisation of digitisers (METAS, LNE, INRIM, VSL).**