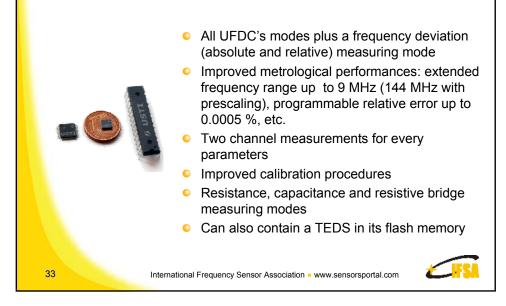


## Universal Sensors and Transducers Interface (USTI)

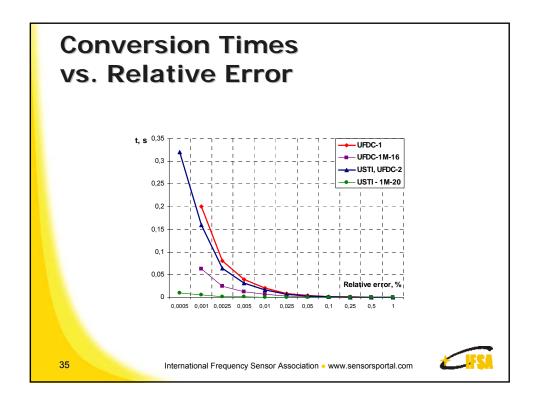


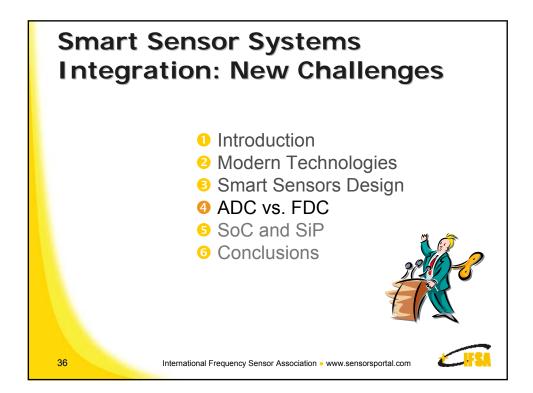
elative Error s. Conversion Time							
Relative error, $\delta_x \%$	$N_{\delta} = 1/\delta_x$	UFDC-1 <i>(at f<sub>o</sub>=</i> 500 kHz)	UFDC-1M-16 (at f <sub>o</sub> =16 MHz)	USTI <i>(at f<sub>o</sub>=</i> 625 kHz)	USTI-1M-20 (at f <sub>o</sub> =20 MHz)		
		t <sub>conv</sub> , s					
1	100	0.0002	0.00000625	0.00016	0.000005		
0.5	200	0.0004	0.0000125	0.00032	0.00001		
0.25	400	0.0008	0.000025	0.00064	0.00002		
0.1	1000	0.002	0.0000625	0.0016	0.00005		
0.05	2000	0.004	0.00125	0.0032	0.0001		
0.025	4000	0.008	0.0025	0.0064	0.0002		
0.01	10000	0.02	0.00625	0.016	0.0005		
0.005	20000	0.04	0.00125	0.032	0.001		
0.0025	40000	0.08	0.0025	0.064	0.002		
0.001	100000	0.2	0.00625	0.16	0.005		
0.0005	200000	-	-	0.32	0.01		

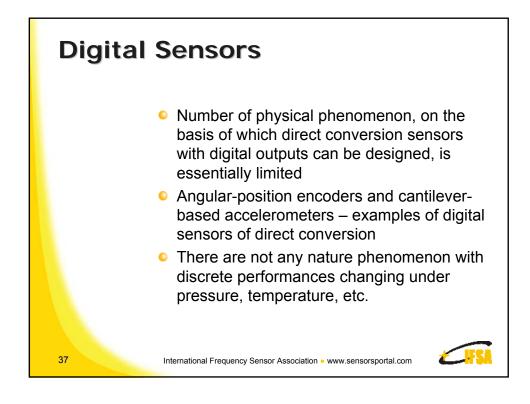
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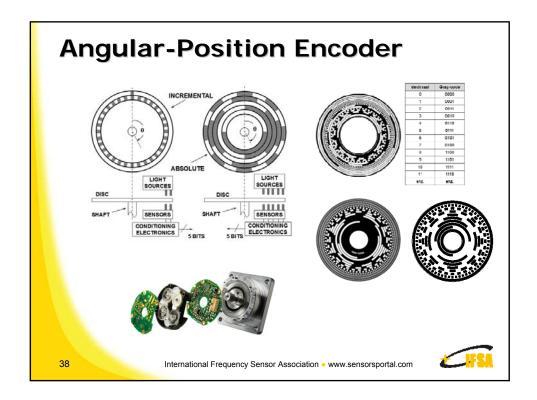
34

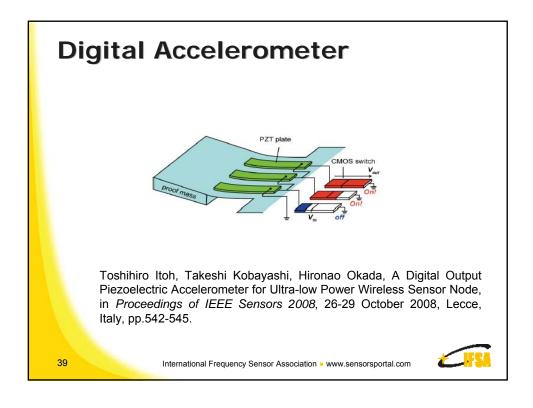


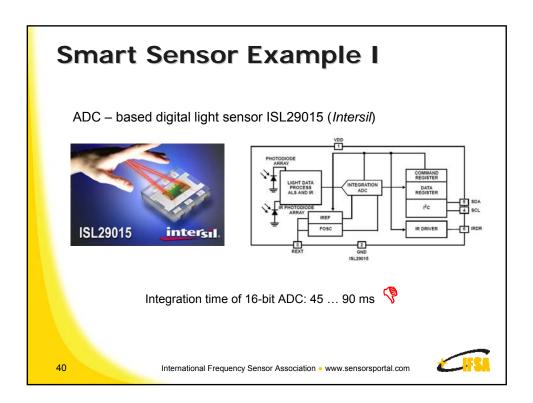


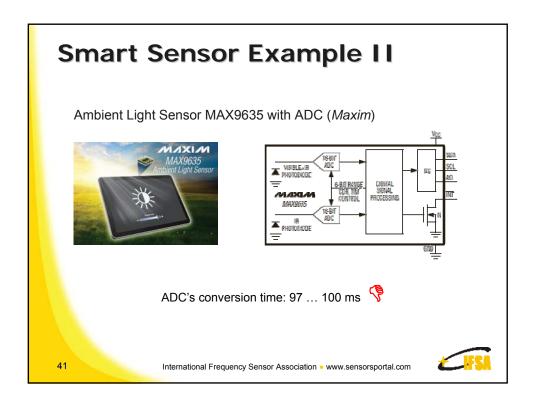


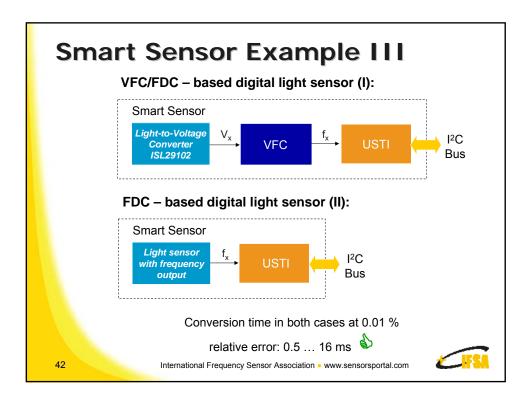


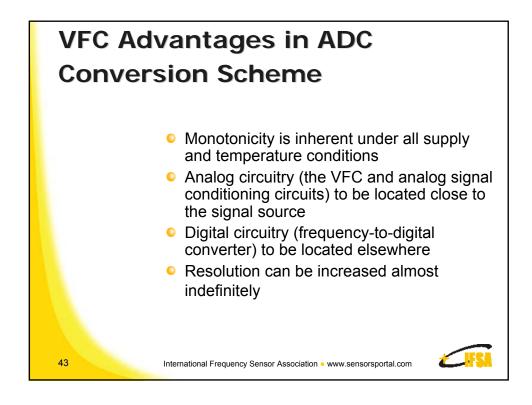


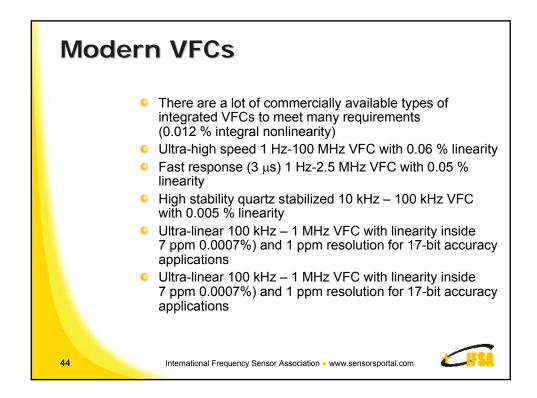












Туре	Max Speed	Resolution	Noise Immunity	Relative Cost
Successive Approximation	Medium (10 kHz to 1 MHz)	6-16 bits	Little	Low
Integrating	Slow (10 Hz to 30 Hz)	12-24 bits	Good	Low
VFC-based	Medium (160 kHz to 1 MHz)	16-24 bits or more	Excellent	Low
Sigma-Delta	Slow to Medium (Up to 1 MHz or higher)	16 bits or more	High	Low
Flash	Very Fast (1 MHz to 500 MHz)	4-8 bits	None	High

