

INTRODUCTION

Temperature devices in process manufacturing environments provide measurements to the process plants' control systems. The performance of these temperature instruments is often critical to optimized operation of the process manufacturing plant or proper functioning of the plant's safety systems.

Process temperature instruments are often installed in harsh operating environments, causing their performance and the performance of their sensors to shift or change over time. Keeping these devices measuring temperature within expected limits requires periodic verification, maintenance and adjustments.

APPLICATION SELECTION GUIDE

								
Model number	75X	72X	712B/ 714B	1551A/ 1552A	1523/ 1524	914X	7526A	418X
Application								
Calibrate and test RTD sensors	**	**	*712B	*	*	Ideal	**	
Calibrate and test thermocouple sensors	**		*714B	*	*	Ideal	*	
Simulate RTDs		■	712B				■	
Simulate thermocouples		■	714B				■	
Generate precision temperatures						■		
Documenting temperature transmitter calibrations	Ideal							
Temperature transmitter calibration with sensor	**					■		
Calibrating HART smart temperature transmitters	Ideal							
Temperature switch/controller testing and calibration	Ideal	726				■	■	
Temperature switch/controller testing live contacts	Ideal							
Infrared thermometer test and calibration								Ideal
Verifying process temperature gauges				■	■	■		
Logging temperature measurements	■			1552A	Ideal			
Precision temperature measurement				■	Ideal			
Automated batch testing of temperature sensors**						Ideal		

* Requires a dry-well such as 914X or 910X

** Requires both a dry-well and a 1586A