

Applications

Often, manufacturing and processing businesses can considerably reduce costs in monitoring critical temperatures by using REATEC strips and points.

REATEC Temperature Indicators serve as:

- Abuse Signals
- Friction Monitors
- Maintenance "Flags"
- Overheating Monitors
- Quality Controllers
- Research Controllers
- Spoilage Indicators
- Warranty Limiters

Just a few of the literally thousands of applications:

- Aircraft Brakes
- Bearing Journals
- Bonding Operations
- Cargo Compartments
- Chemical Processes
- Computer Rooms
- Condensed Milk Processing
- Electric Motors
- Electronic Components
- Engine Parts
- Food Packing
- Food Warehousing
- Heating Systems
- Hydraulic Systems
- Petroleum Refining
- Pharmaceuticals Manufacturing
- Pharmaceuticals Warehousing
- Photographic Film and Chemicals
- Piping Systems
- Plastics Manufacture
- Rubber Processing
- Shipping Containers
- Paper and Paperboard Manufacture
- Pneumatic Tires
- Veneer and Plywood Manufacture

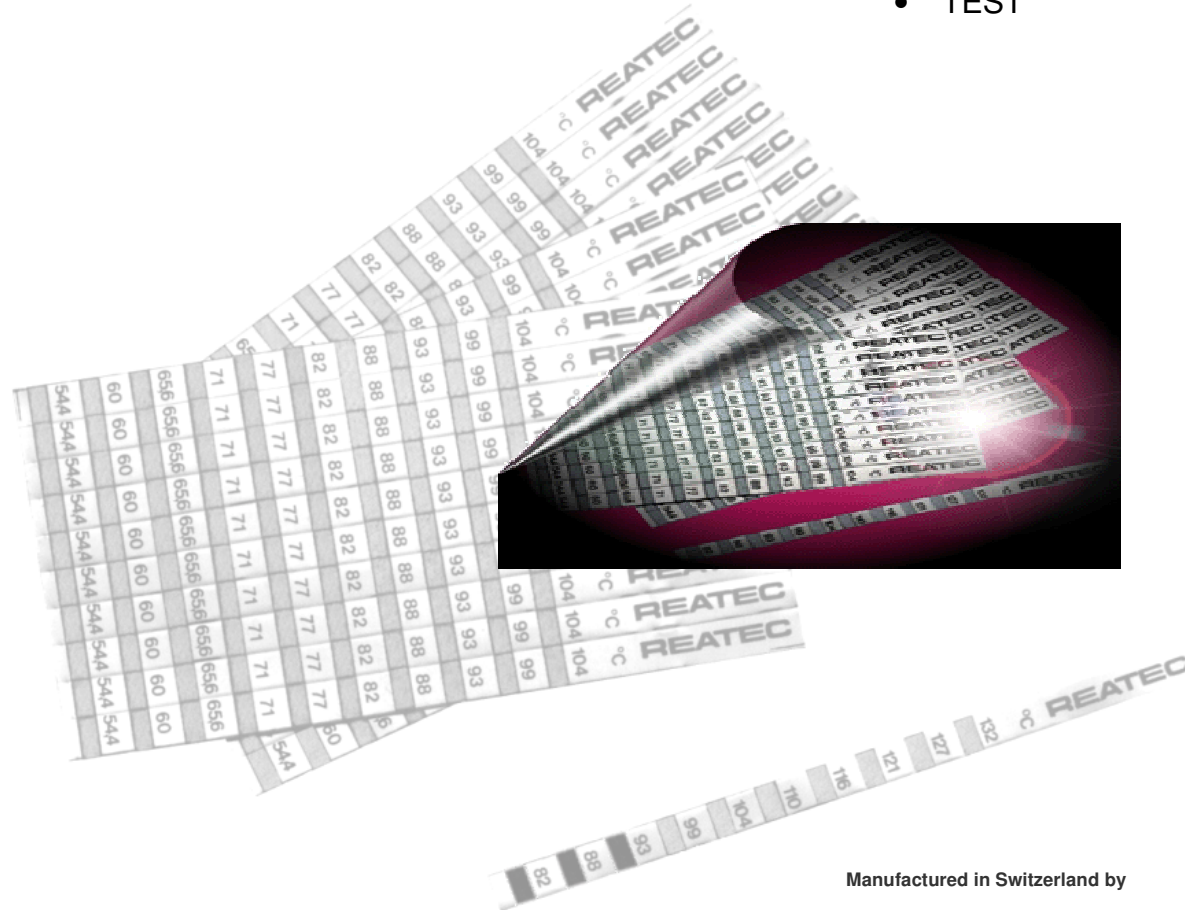
Precision Swiss made

- Indicator formulas accurate to $\pm 1\%$
- Reaction time is about 1-3 seconds
- In conformity with REACH, WEEE and RoHS

Protect your product and process

REATEC® TEMPERATUR- INDIKATOREN
TEMPERATURE- INDICATORS

- MONITOR
- CONTROL
- PROTECT
- TEST



Manufactured in Switzerland by

REATEC AG

Raubühlstrasse 15A CH- 8600 Dübendorf - Zürich
Tel. + 41 44 821 71 11 www.reatec.ch
Telefax: + 41 44 821 71 03 info@reatec.ch

REATEC® TEMPERATURE INDICATORS

verify and locate HOT SPOTS in electronic and mechanical equipment. Indicate OVERHEATING in critical areas
Void guarantees and warranties when equipment is used above specified temperature limits.

With many manufacturing processes and products it is essential that critical heat levels either are reached or not exceeded. Remaining within these parameters can be significant for manufacturing casts or product quality. This is where REATEC temperature indicator strips or points are applied.

REATEC temperature indicators measure temperatures within the range of 37.8°C and 264°C by means of an irreversible change of colour, from grey to black.

Several temperature measurement points are combined on each strip. The combinations cover a range from approx. 60°C, 40°C or 20°C in 10 assembly levels. Individual measuring points can be supplied.

REATEC temperature indicators are an important alternative to thermometers. At minimum cost they can be used for applications where thermometers fail owing to their size, rigidity, shock sensitivity, cost or for other reasons.

REATEC® Temperature Indicator Standard Strips

with 10 elements are self-adhesive (can be supplied non-adhesive).

The grading increments of the indicators range between 3- 8°C; increments of 2°C can be supplied for part segmentation (see table).

The standard strips have been designed for use under normal, clean and dry conditions which ensure that the indicator points do not get in contact with grease, oils, solvents or moisture. Contact with these substances could lead to a fake colour change.

REATEC® Temperature Indicator Strips P

Are protected against unwanted influences such as moisture and grease. Ranges P01, P1A, P02, P2A and P03 are fully sealed. Ranges P3A, P04 and P41 will be fully sealed only if the covering adhesive foil carefully stuck on a clean surface.

Type P indicator strips are less sensitive to compression. They are therefore particularly suitable for applications on presses, calandar cylinders, etc.
REATEC Type P is only available with standard increments (Range P01 - P41).

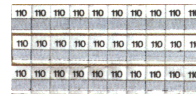
Overview of the measuring ranges that can be supplied (subject to change)

Strips with 10 elements standard increments
Strips with narrow increments
Not available as P-Type

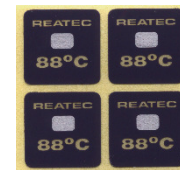
001 (P01)	002 (P02)	003 (P03)	004 (P04)	01A (P1A)	02A (P2A)	03A (P3A)	041 (P41)	082	102	214	042
77	132	188	254	104	160	216	260	100	120	232	264
71	127	182	249	99	154	209	254	98	118	227	261
65,6	121	177	243	93	149	204	249	96	116	223	255
60	116	171	232	88	143	199	243	94	114	218	249
54,4	110	166	224	82	138	193	232	92	112	214	245
49	104	160	216	77	132	188	224	90	110		242
46	99	154	209	71	127	182	216	88	108		235
43.3	93	149	204	65,6	121	177	209	86	106		231
40,6	88	143	199	60	116	171	204	84	104		227
37,8	82	138	193	54,4	110	166	199	82	102		224

REATEC® Temperature Indicator Points

In principle, all temperature points supplied on strips can also be supplied as individual points. In such a case, a distinction has to be made according to their design:



Mini Individual Points 5 x 7 mm paper or Alu backed, adhesive. Available unrestricted for all temperatures listed from 37,8 – 264 °C Package size: 500 pieces



Indicator Points, 17 x 17 mm can be supplied for list temperatures of 37,8°C to 121°C. They correspond to Type P. Package size: 100 pieces



Indicator Points, round are not supplied in standard design, but may be ordered custom-engineered.

Indicator points are used mainly in applications where a defined maximum temperature is to be shown, e.g. with electronic components, in electrical distributors (transition resistance), etc.

Custom-Designed REATEC® Temperature Indicators

For instance, they can be designed as indicator points on a continuous strip for automatic application to prefabricated parts.