

With LookIR windows model xlk011 you can make thermal imaging inspections on electric panels of low and medium voltage, electric devices and working machineries and to check if there are some abnormal hot or overheated points. It increases your productivity by improving the reliability of your machinery, instruments and plants and the safety of your staff. Items made in Italy! They are easy to be installed and use and have a long lifetime.

Infrared-rays ride-through

Infrared rays, passing by the normal glass or synthetic material porthole are sensibly reduced so that you can't make well-founded surveys with thermal imaging infrared cameras.

With LookIR windows you can save time watching the infrared-rays coming from the cells inside, without opening it. They are also suitable for the electrical components inspection, low-power.

It's a real save instrument also because, permanently installed on switches, cell doors and trafo panels make you free to supervise infrared-rays without switch-off line voltage and to find problems on critical areas, like bars, switches, isolators, fuses, etc. without the necessity of disturbing or stop the process. This way of making thermal images offers you the possibility of improve final results.

Application examples

Electric panels, busbars, electric motors, trafos, inductors, connectors, cabinets, machineries, drying kilns, climatic chambers, test rooms, cogenerators, chemical and pharmaceutical plants.

Acrylic materials for porthole xlk011

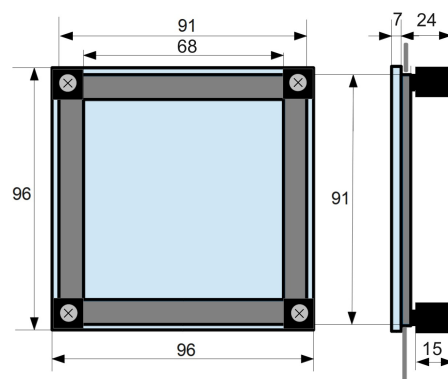
LookIR windows are made completely by acrylic materials: the first one IR see-through and the second one for the body. The window can't be open or get of in any way from the outside. Protection degree is IP40 and all the materials comply with RoHS rules.



Note: modifications of some small details are always possible without notice. Real values shall be confirmed with our acknowledgment of your firm order.

Dimensions in millimetres - xlk011

Dimensions	mm
Overall external dimensions	96x96
Colour of plastic body	black
IR see-through area	68x68
More fixing holes on panel: not necessary	-
Fixing from rear panel with plastic caps and steel self-threading screws	4
Thickness outside border 96x96	5
Thickness of IR see-through area	2
Max thickness inside border from panel	15
Recommended cutting on metal sheet	92x92
In-panel body	91x91

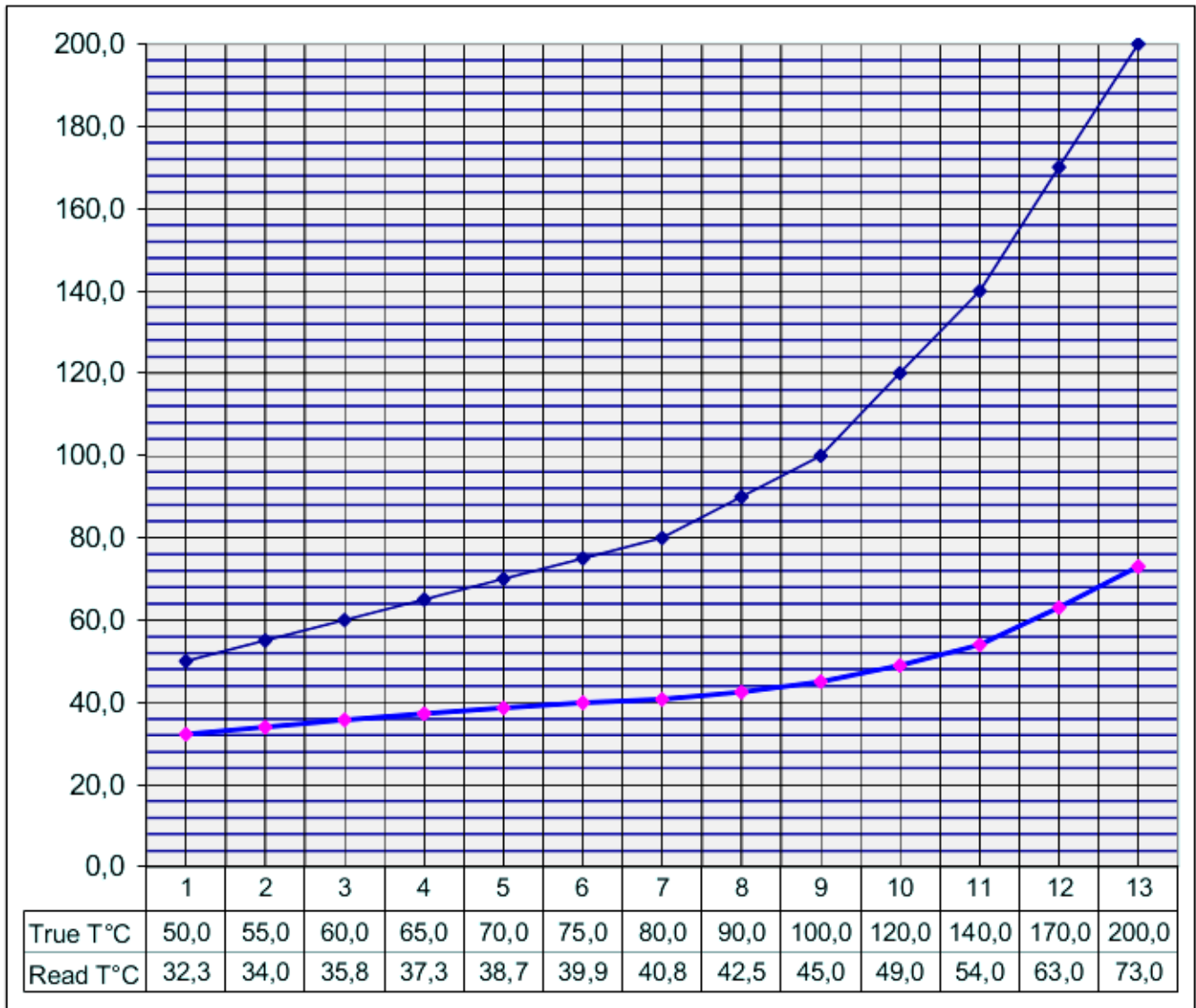


Technical specifications - product code xlk011

Compatibility	RoHS
Max suggested working temperature	80°C
Max absolute temperature	100°C (Vicat softening point)
Degree of protection	IP40
Weight (approximately)	55 g
Pressure-resistant applications	Not suitable
Suggested cleaning procedure	Non-aggressive liquids for glass cleaning. Don't use solvents.
Max tightening torque 4 fix screws	0.5 Nm or 4 kg.cm or 4.5 pound inch - Phillips head

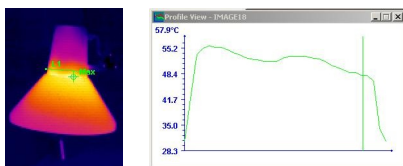
Theoretical conversion curves

Blue line with red dots indicates temperatures in °C seen by thermocamera through the window xlk011. The blue line with blue dots indicates the true temperature in °C corresponding to the observed heat source. After measurement with IR thermocamera, find the value between red dots and consider the temperature between blue dots in the same position in vertical.



Note: values supplied can differ by production lots within 5% of absolute temperature values related to observed target.

Comparison between direct thermal image and the same thermal image through LookIR window:



Direct thermal image on the left and thermal image through a LookIR window on the right. The small reduction is visible from the graphics.

