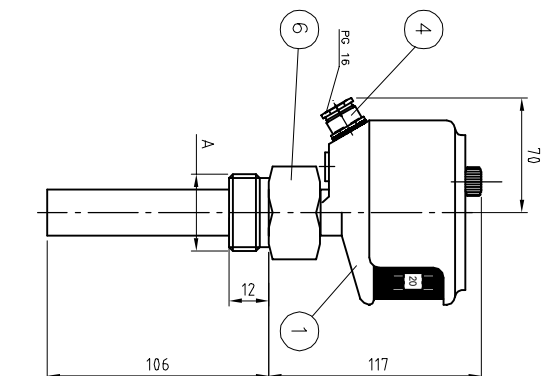


NOTES:
UNLESS OTHERWISE SPECIFIED
1. DIMENSIONS: mm



This thermometer is designed for indication of oil temperature in transformers. It is fitted with two electric switches and a maximum indicating pointer. The thermometer operates efficiently under very hot and very cold weather conditions.

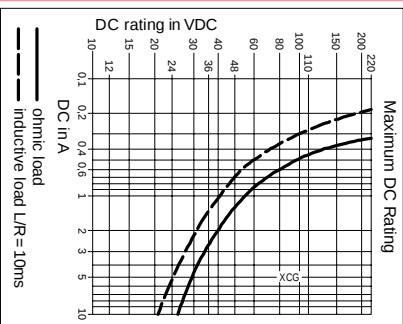
All components are surface treated or made of corrosion resistant materials. The temperature sensing element is a bimetal helix. Setting of contacts is indicated on the indicating scale. Case the coated aluminium alloy with baked enamel finish over a first coat of etching primer. Clear transparent window of tough acrylic plastic. Weatherproof according to DIN 40050

Maximum indicating pointer
Resettible from the outside by means of a knob
Measuring range 10–120°C
Accuracy : $\pm 5^\circ\text{C}$
Protection Class : IP43

Recommended Maximum Electrical Ratings (Switch Characteristics)							
Switch Type	Voltage (V)	Resistive Load (A)	Motor Load (A)	Approvals ENEC		Approvals UL	
XCG	250 (AC)	6	2	6 (2)	250 (AC)	5	250 (AC)

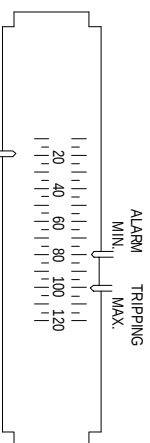
Diagram illustrating the 16-pin connector pinout for the 1600 Series. The pins are numbered 1 through 16. The pinout is organized into four groups of four pins each, with labels indicating their function:

- Switch Option Type:** Pins 1-4 (Values: 4, 2, 1, 3)
- Color Option:** Pins 5-8 (Values: 3, 3, A, 9)
- Without Switch:** Pins 9-12 (Values: 0, 3, A, 4)
- Change Over Connected for Double Switch:** Pins 13-16 (Values: 4, 3, A, 4)



DIMENSION TABLE				
Types	Code	A	ØE	Switch Option
TEK 14	41133		15	A
	41143	G1/2"		B
TES 14	41103			XX
TEK 16	42133		G1"	A
	42143			B
	42149			
TES 16	45103		17	XX
TEK A 16	43143			A
	43149	G3/4"		B
TES A 16	46103			XX

Double Contact and Standard of Connection	NO	NC	NO/NC
max.			
min.			
MP			



7	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	410001515	410137	Cover Fixing Nut	Death
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	421000223		Body Connector G $\frac{3}{8}$ "	Aluminium
6																421000203	410051	Body Connector G1"	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	411000223		Body Connector G $\frac{1}{2}$ "	
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	410000500	410018	Scale	Aluminium
4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	211000403	200024	Cable Gland	Brass
3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	421000100	410124	Tube	Brass
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	411000100	410123		
2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	410001529		Top Cover (RAL 703 8)	Aluminium
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	410001525		Top Cover (RAL 7035)	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	410001524		Top Cover	
1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	421000564		Lower Body	Aluminium / ETAL180
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	411000564			
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	421000169			
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	421000164			
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	421000163			
1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	411000164			

0		46103		TES A 16 (WITHOUT CONTACT)	⊕
		45103		TES 16 (WITHOUT CONTACT)	⊕
		44103		TES 14 (WITHOUT CONTACT)	⊕
		43143		TEK A 16	⊕
		4313A		TEK A 16 (RAL 7035)	⊕
		43133		TEK A 16	⊕
		42149		TEK 16 (RAL 7038)	⊕
		42143		TEK 16	⊕
		42133		TEK 16	⊕
		41143		TEK 14	⊕
	41133		TEK 14	⊕	
Item	Quantity	Part ID / Code No.	Document No.	Description	Technical Data / Designation

REVISIONS - BASED ON:		TAPIN - TITLE:	
N/A	NAFIT NO. - REV. NO.:		
TEKNOLOJYA - REVIZİYON:	SEÇİMİLELİ DİY. - SEÇİMİLELİ DİY.:		
E.T.aveciğlu	PPTR / İÇÇ ELEMEK		
ÖZET - SUMMARY:	ÖZETLEME DİY. - TAYİN ÖZET DİY.:		
C.T.Çiğdem	N/A		
REVİZYON - REVISION:	B. AŞKIN - T. MAS:		
5	N/A		
ABB Power Products Transformers		BIMETAL THERMOMETER	
REHİN NO. - DOCUMENT NO.:		TER-00-000	
KOD NO. - CODE NO.:		Tabloya Bakınız. See Table.	
5		1	
ABB		NTS	
Power Products Transformers		NTS	
REHİN NO. - DOCUMENT NO.:		TER-00-000	
KOD NO. - CODE NO.:		Tabloya Bakınız. See Table.	
5		1	
ABB		NTS	
Power Products Transformers		NTS	