

Technical Data
Temperature measuring cables


Article	Temperature measuring cable AKK	Temperature measuring cable GKD89DG	Temperature measuring cable AMT	Temperature measuring cable AMT-P	Temperature measuring cable GKD89BD
Article number	1051031 (ATEX)	1050006 1050007 (ATEX)	1051020 (ATEX)	1051024 (ATEX)	1050004 1050005 (ATEX)
Application purpose	Digital temperature measuring cable for installation in silos and bulk storages.				
General information					
Hollow rope	Steel wire is twisted around HDPE inner pipe, outer sheath PE antistatic according to ATEX-RL 2014/34/EU.				
	Ø = 10mm	Ø = 17mm			
Weight housing with head	1.0kg	0.9kg	0.9kg	0.7kg	3.2kg (incl. suspension box)
Weight hollow rope	0.3kg/m	0.45kg/m			
Rope length hollow rope	1m – 22m	up to 100m	up to 28m	up to 28m	2.0m to 100m
Test load	max. 20kN	max. 60kN	max. 40kN		max. 60kN
Process connection	¾" thread, steel galvanized	1½" thread, steel galvanized	1½" thread, steel galvanized	Flange plate, steel galvanized	Suspension box, steel galvanized
Material housing head	steel	aluminium			
Process pressure	0.8 – 1.1 bar				

Electrical Data		
Operating principle	2-wire technology	
Resolution	0.1°C	
Precision	± 1°C	
Measuring range	-40°C to +125°C	
Interface	Agromatic 2-wire technology	
Connection	AAK Agro Therm blue 1x2x Ø0.6mm + shield/PE	
Connection data for intrinsically safe systems	U _i = max. 10V _{DC} / I _i = max. 250mA / L _i = max. 100uH / C _i = max. 100nF / P _i = 0.24W	
Temperature range		
Ambient	-20°C to +55°C (ATEX) -40°C to +80°C	
Process	-20°C to +55°C (ATEX) -40°C to +80°C	
Storage	-20°C to +60°C	
Air humidity	max. 95% relative, non-condensing	
Safety relevant data		
IP protection class	IP 65	
ATEX zone	20 zone separation 20/21	zone separation 20/21
ATEX certification	Ex II 1D Ex ta IIIC T60°C Da Ex II 1/2D Ex ta/tb IIIC T60°C Da/Db	Ex II 1/2D Ex ta/tb IIIC T60°C Da/Db