The Most Trusted Tools in the World.

FLUKE®

Fluke 568 Ex Intrinsically Safe Infrared Thermometer

Intrinsically safe temperature measurements. Anywhere in the world.

Product Announcement

ProductOverview

ValueProposition

·Meetsintrinsicallysafe certificationsfromallmajorsafety agenciesforClassIDiv1andDiv2 orZone1and2hazardous environments.

·Onetoolsuitableforuse anywhereintheworld.

·Idealforpetroleum,chemical,oil &gas,orpharmaceutical environments.

ProductHighlights

- Measure-40°Cto800°C (-40°Fto1472°F)with±1% measurementaccuracy
- Conductivecaseforcarryinginto hazardousareas
- Accessadvancedfeatureseasilywith soft-keysandgraphicaldisplay
- Accuratemeasurementsfromfurther away,with50:1distance-to-spotratio
- CompatiblewithstandardK-typemini-connectorthermocouple(KTC)probe
- Adjustableemissivity,built-inmaterial table
- Captureupto99pointsofdata
- Versatileinterfacewithmultiple languages(userselect)
- Two-yearwarranty

Whowillbuy

Application	Segments	Temp Range	Accuracy	D:S	Opportunity
Repair and maintenance: Measure motor, pump to verify balanced phase-to-phase power distribution and proper operating temperature	Manufacturing Site	120°C	Low	Low - Medium	Traditional applications of IR Thermometers on **equipment maintenance** (electrical motor for balanced phase-to phase power distribution, motor bearings, motor winding insulation), **electrical maintenance** (transformers, ballasts, utilities, uninterruptible power supplies), and **process/product** monitoring temperature on production line such as rubber to plastics can be applied using 568Ex but the operating environment is considered hazardous where inflammable gases and vapor exists which can cause explosion. Such environment usually exists in oil & gas, petrochemical, refinery, and pharmaceutical industry
Repair and maintenance: Measure panels, fuses, circuit brake, compressors, duct, vents in hard to reach areas	Installer, Contractor of Electrical/HVAC	200°C	Low	Medium - High	
Maintenance: Taking measurement of transformers, wires and components located high above ground.	Utilities	120°C	Low	High	
Maintenance & Quality control: Monitor the temperature during chemical processing	Chemical	800°C	Medium-high	Medium-High	
Maintenance: Exterior of the kiln temperature , Monitor the surface temperature of the reformer tubes	Petrochemical	800°C	Medium	Medium-High	

568Exwillservetheneedsofcustomerswhomustcomplywith EH&Sregulationstoensuresafetywhile operatinginahazardousenvironmentwherehazardousgasesandvaporarepresent

Competition(andhowtobeatthem)

	Fluke568Ex	Competition
Worldwide certification	Meetsintrinsicallysafecertifications fromallmajorsafetyagencies.Buy onetoolforworldwideoperation.	Mostlimitedtoonecountryorregion.
Availability	Anywhereintheworld	Onlythreecompetitivemodels,all builtbyChinesecompetitors.Only CWH425hasbeenexportedoutsideof Chinaat200-300unitsperyear.
Flukebrand	Themosttrustedtoolsintheworld.	Lowprice,butcomparativelylow performanceandreliability.
DataStorage	99Sets	Nodatalogging
Languages	Multi-languageinterface(userselect)	Mostaresinglelanguage,variesby maker.

WithoutExcertifiedproductcustomerhastoapplyforahotpermittotake temperaturemeasurementsorruntheriskofignitionofflammablegassesandvapors.

SafetyCertifications

AGENCY	SAFETYRATING
ATEX/IECEx	Zone1and2 IECExEPS13.0006X ExiaIICT4Gb 0°C≤Ta≤50°C EPS13ATEX1.525X II2GExiaIICT4Gb

Whatdoesitmean?

MeaningofMarking:		Zone1	IIC	T4	0°C≤Ta≤50°C
Marking:	Class1	Division1	GroupsABCD	T4	0°C≤Ta≤50°C

TypeofFlammableSubstance
Class1-approvedforstrictestclass
*Class1-Flammablegas,vapors,andliquids
*Class2-Combustibledusts
*Class3-Ignitablefibersandflyings

AreaClassification
Division1-approvedtothestrictestdivisionforboth:
*Division1-flammablesubstancesarecontinuouslypresent orlikelytoexistundernormaloperatingcondition
*Division2-flammablesubstancesarenotlikelytoexist undernormaloperatingcondition

GasGroup
GroupB-approvedfroGroupB,alsoapprovedforGroupsC andD,butnotA.IfnoGroupsarelisted,approvedforall.
Thegasesaregroupedaccordingtocertainphysical characteristicsontheirexplosivebehavior

TemperatureCode
Ifnotemperaturecodeislisted,meetsstrictesttemperature code(T6)
Thisisthemaximumtemperaturethattheequipmentis allowedtoemitwithoutcausinganexplosion/fire.
T4inZone0,1,2isequaltoT4andT4AinDivision1and2
MaximumTemperatureT4135^{0}C(275^{0}F)andT4A120^{0}C (248^{0}F)
AmbientTemperaturerange(0°C≤Ta≤50°C)isalsomarked.

UnderstandingZonevsDivision

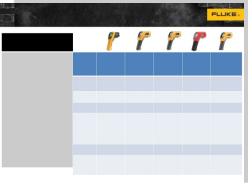
Zone0	Zone1	Zone2
Whereignitable concentrationsof flammablegases, vapors,orliquidsare presentcontinuously orforlongperiodsof timeundernormal operating conditions.	Whereignitableconcentrations offlammablegases,vapors,or liquids: ·Arelikelytoexistunder normaloperating conditions ·Mayexistfrequently becauseofrepair, maintenanceoperations,or leakage	Whereignitableconcentrationsofflammable gases,vapors,orliquids: ·Arenotlikelytoexistundernormaloperating conditions ·Occurforonlyashortperiodoftime ·Becomehazardousonlyincaseofanaccident orsomeunusualoperatingcondition
	Division1	Division2
Whereignitable concentrationsof flammablegases, vapors,orliquids: ·Arelikelytoexistundernormaloperating conditions ·Existfrequentlybecauseofmaintenance/repair workorfrequentequipmentfailure		Whereignitableconcentrationsofflammable gases,vapors,orliquids: ·Arenotlikelytoexistundernormaloperating conditions ·Arenormallyinclosedcontainerswherethe hazardcanonlyescapethroughaccidental ruptureorbreakdownofsuchcontainersorin caseofabnormaloperationofequipment

Table2:Class1GroupComparison

Zone	Class/Division
IIC-AcetyleneandHydroge n	A—Acetylene
	B—Hydrogen
	C—Ethylene
IIB—Ethylene	D—Propane
IIA—Propane	

Fitinproductline

- 568Exoffers performancesimilarto 566,568,PLUSEx certification
- Range,D:Sslightlyunder thepremium572-2 High-Temperature InfraredThermometer
- Fluke'sonly intrinsicallysafe infraredthermometer







	Fluke561 Infrared/Contact Thermometer	Fluke566 Infrared/Contact Thermometer	Fluke568 Infrared/Contact Thermometer	Fluke568Ex IntrinsicallySafe Infrared Thermometer	Fluke572-2High-Temperature Infrared/Contact Thermometer
Temperature Range	-40°Cto550°C -40°Fto1022°F	40°Cto650°C -40°Fto1202°F	-40°Cto800°C -40°Fto1472°F	-40°Cto800°C -40°Fto1472°F	-30°Cto900°C -22°Fto1652°F
Distanceto SpotRatio	12:1	30:1	50:1	50:1	60:1
Laser Sighting	Singlepoint laser	Singlepoint laser	Singlepoint laser	Singlepoint laser	Duallaser
Emissivity	Adjustablewith threesettings: Low(0.3), Medium(0.7). High(0.95)	Bybuilt-intable ofcommon materialsor digitally adjustablefrom 0.10to1.00by 0.01	Bybuilt-intable ofcommon materialsor digitally adjustablefrom 0.10to1.00by 0.01	Bybuilt-intable ofcommon materialsor digitally adjustablefrom 0.10to1.00by 0.01	Digitallyadjustable from0.10to1.00 by0.01orviabuilt-intableof commonmaterials
Display Resolution	0.1°C(0.1°F) ofreading	0.1°C(0.1°F) ofreading	0.1°C(0.1°F) ofreading	0.1°C(0.1°F) ofreading	0.1°C(0.1°F) ofreading
Backlight Display	Yes	Twolevels	Twolevels	Twolevels	Twolevels,normal andextrabright fordarker environments

AdditionalFeatures

	ServicePlan
·Fluke568EXIntrinsicallySafe InfraredThermometerwithred holsterandleathergrip ·Conductivehardcarryingcase ·K-typethermocouplebeadprobe ·User'smanualwithsafety instructionsheet ·Recommendedaccessories ·80PK-1GeneralPurposeBeadProbe FollowingK-typeprobesarenotExrated ·80PK-8PipeClampTemperatureProbe ·80PK-9Insulation-PiercingProbe ·80PK-11Type-KFlexibleCuffThermocouple TemperatureProbe ·80PK-25PiercingProbe ·80PK-26TaperedProbe ·80PK-27SureGrip™IndustrialSurface TemperatureProbe	Fluke568Exisbackedbyatwoyear warranty. 

	568Ex
OpenforOrders	August14
ATP	Threeweeks
SalesDiscounts	SameasTEMPdiscount
FlukeModel#	568EX
FlukeOracle#	4321662
UPCCode	095969666138
Description	FLUKE-568EX,INTRINSICSAFEIRTHERMOMETER,ATEXAPPROVAL
CountryofOrigin	Germany
ECCN	EAR99
Harmonize	9025198080
WEEECategory	9
DangerousGoodsCategory	No
ProductDimensions(H,W,D)	17.69cmHx16.36cmLx5.18cmW(6.965inHx6.441inLx2.039inW)
PackagingDimensions(H,W,D)	25.2cmLx19.2cmWx6.9cmH(9.921inLx7.559inWx2.717H)
ProductNetWeight	0.340kg(0.7496lb)
PackageNetWeight	0.968kg(2.134lb)
BatteryType	AAA
IECDesignator	LR03
CellMass(g)	12
Rechargeable?	No
Dimensions(H,W,D)	45mmx10.5mmx10.5mm(1.77inx.41inx.41in)
SafetyandCompliance	IEC60825-1;FDALaserClassII;EMC61326-1;CEComplaint