



Micro-set®

MSD2 Technical Datasheet



Manufacturer	HALL Engineering Services Limited
Equipment name / model no.	'Skeltonhall' Micro-set® / MSD2
Prover loop pipe diameter	3" to 36" and larger
ANSI pressure rating (standard / high pressure)	600# / 1500#
Element type	Encapsulated reed switch (SPST)
Switch rating	24VA (250V DC max / 250V AC max / 2 Amps max)
Process connection	Pipe mounting boss (manufactured by HALL Engineering)
Pipe hole diameter	20mm or 32mm (depending on pipe wall thickness)
Switch-point repeatability & resolution	+/- 0.01 mm (+/- 0.0004") - full assembled device
Design Pressure (standard / high pressure)	600# = 102 barg / 1500# = 255 barg (depending on design temp.)
Design Temperature (process)	-20°C to +200°C
Design Temperature (ambient)	-40°C to +75°C
Materials	Housing: 316 st.st Wetted parts: 316 st.st Bolting: A4 marine grade SS O rings: Viton
Ex Markings	II 2 G Ex db IIB T6 Gb Ta -40°C to +75°C
Cable entry (alternatives available)	¾" NPT(F) or ½"NPT(f) or M20 (dependent on JB - ordered separately)
Hazardous area classification/certification	ATEX: ExVeritas 19 ATEX 0477X IECEx: EXV 19.0016X UKEX: ExVeritas UKEX 0763X
Documentation	IECEx, ATEX & UKEX Hazardous area certificates EU Declaration of Conformity Functional test reports and calibration records 3.1 Material certificates Setting, Installation, Operating & Maintenance Manual Installation GA Drawing Certificate of Non-Dual Use
Options/Special tools (priced separately)	Weld on pipe mounting boss (CS standard, SS optional) Ex d J.B. for connecting site cable (aluminium standard, SS optional) Flushing port (for waxy / debris laden products) Retrofit (adapter or adapted design to fit other manufacturers' bosses) Spare parts kit ANSI 600# setting jig ANSI 1500# setting jig Boss alignment & pressure test tool (BAPTT)
Optional documentation (if specified / ordered)	NACE certificate Junction box certification Mounting boss material certificate