



Issue: B - 11 May 2004

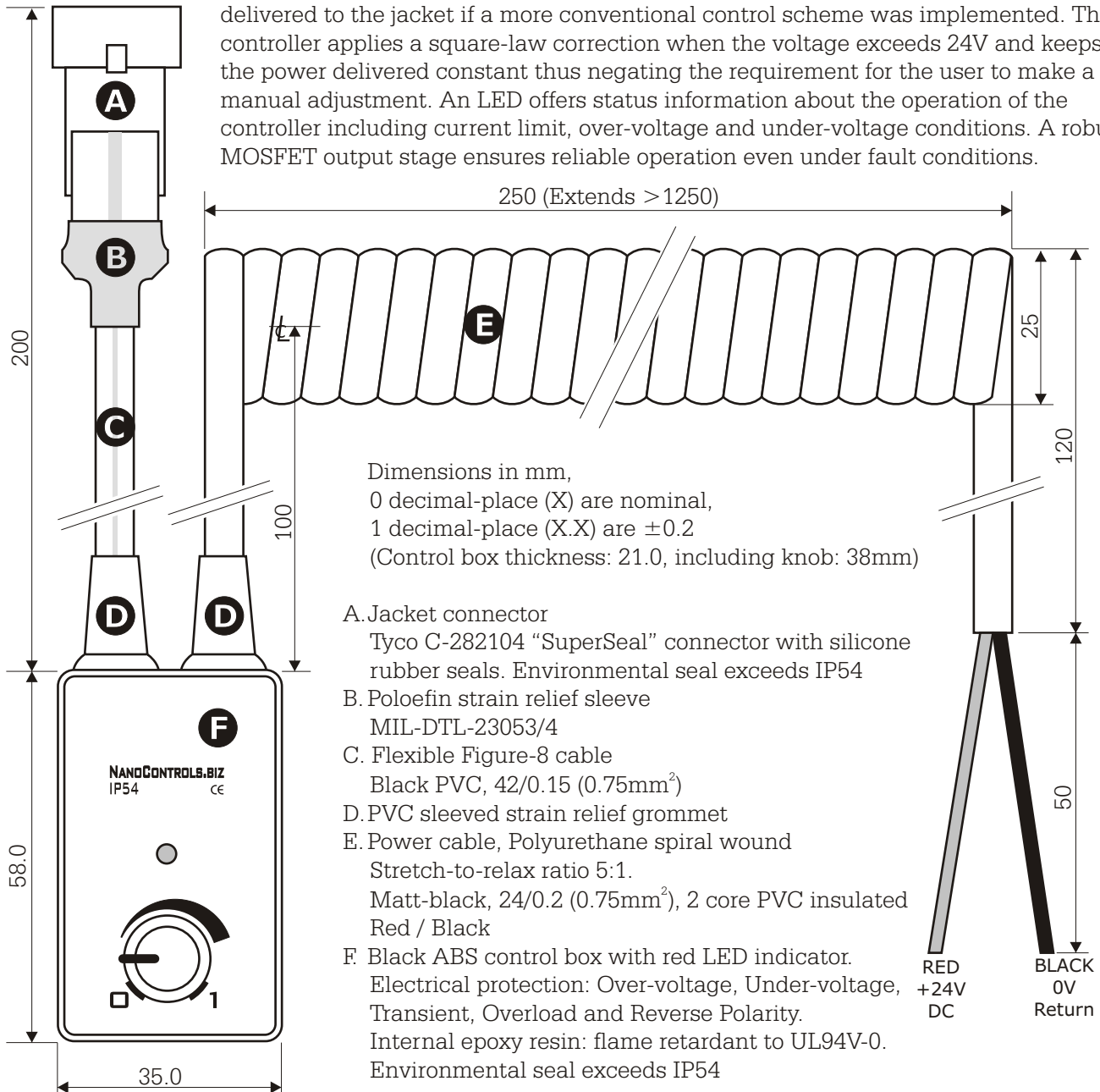
I certify that this heated clothing controller meets the detailed specification set out in this document

Sign
Name

Position
Date

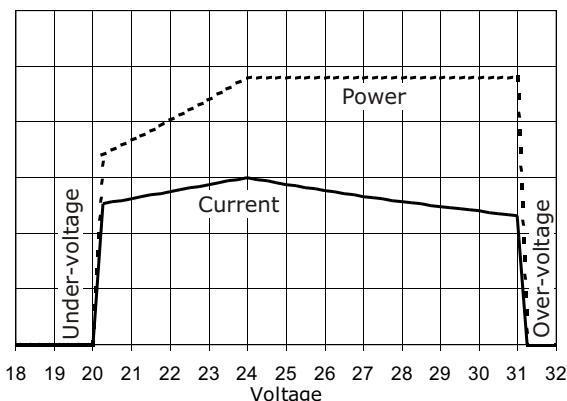
Notes:

The control knob sets the average power delivered to the jacket rather than the average voltage. Operating voltage typically changes from 24V to 29V as batteries move from discharging to charging which could result in a 46% change in power delivered to the jacket if a more conventional control scheme was implemented. This controller applies a square-law correction when the voltage exceeds 24V and keeps the power delivered constant thus negating the requirement for the user to make a manual adjustment. An LED offers status information about the operation of the controller including current limit, over-voltage and under-voltage conditions. A robust MOSFET output stage ensures reliable operation even under fault conditions.



Parameter	Min	Typical	Max	Unit
Load resistance	6.0	12.0		Ω
Supply Voltage*	18	24	35	V
Quiescent (OFF) current		0.005		A
Ambient Temperature	-25		50	$^{\circ}\text{C}$
Over-voltage (LED single flash)		31		V
Under-voltage (LED double flash)		20		V
Over current (LED fast flashing)		10		A

*Over or under voltage trips will activate, load current will be switched OFF



18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
Voltage