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(54) Title of the invention : INTEGRATED MONITORING AND CONTROLLING DEVICE FOR DISTRIBUTION TRANSFORMER

(51) International classification	:H02J 13/00	(71)Name of Applicant : 1)Dr.Katragadda Swarnasri Address of Applicant :Professor, Department of EEE, R.V.R. & J.C.College of Engineering, Chowdavaram, Guntur, Andhra Pradesh, India, 522019. Andhra Pradesh India
(31) Priority Document No	:NA	2)Dr.Koritala Chandrasekhar
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)Dr.Katragadda Swarnasri
(86) International Application No	:NA	2)Dr.Koritala Chandrasekhar
Filing Date	:NA	3)Dr.Gudapati Sambasiva Rao
(87) International Publication No	: NA	4)Dr.G.V.Prasanna Anjaneyulu
(61) Patent of Addition to Application Number	:NA	5)Dr.Ponnam Venkata K Babu
Filing Date	:NA	6)Ms.Mallipeddi Anitha
(62) Divisional to Application Number	:NA	7)Ms.Pidikiti Tripura
Filing Date	:NA	8)Mr.B.Veera Vasantha Rao
		9)Mr.Puchanuthala Siva Krishna
		10)Mr.Sumanth Yamparala

(57) Abstract :

ABSTRACT: Title: Integrated Monitoring and Controlling Device for Distribution Transformer The present disclosure proposes an integrated monitoring and controlling device for a distribution transformer in smart power grids that aids to automatically monitor and control distribution transformers from the control substation. The integrated monitoring and controlling device 100 comprises a sensor data acquisition module 101, a communication module 102, and a bypass device 103. The compact distribution line carrier communication (DLCC) device placed at each distribution transformer monitors different parameters of distribution transformers and enables control of transformers from the control substation. The proposed device enables preventive maintenance that reduces maintenance costs of distribution transformers. The monitoring and controlling device prevents failures, provides real-time failure alerts, and enhances control over power grids.

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